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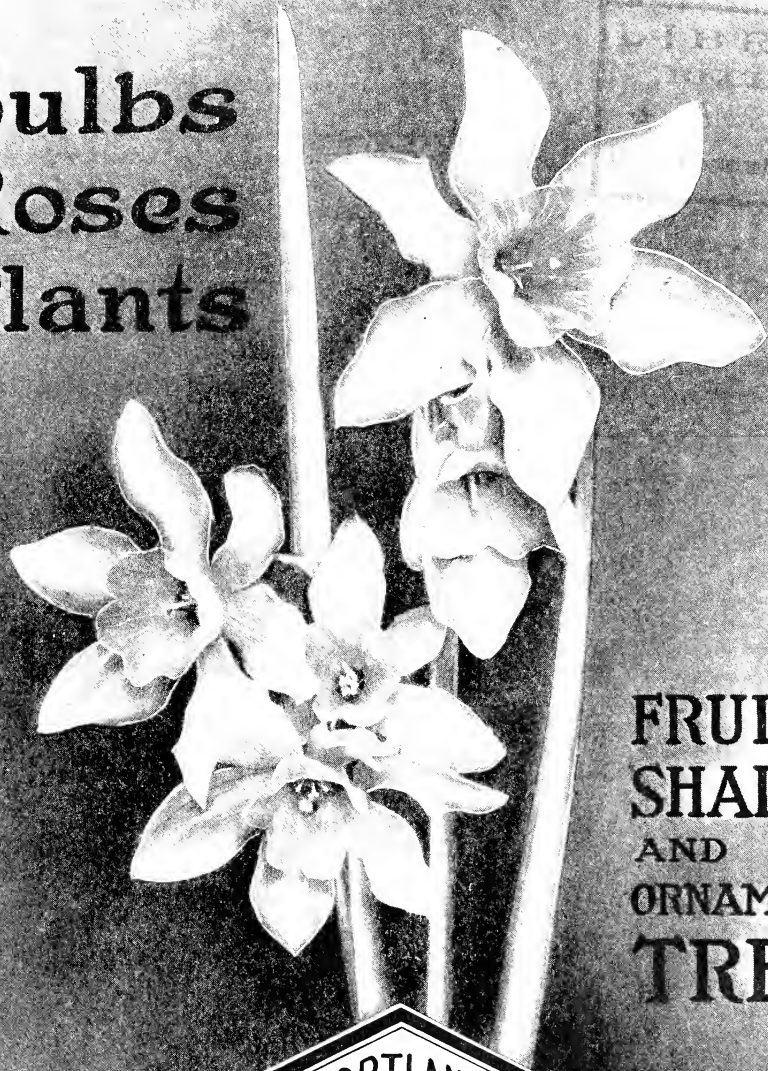
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# Autumn 1921 Catalog

**Bulbs  
Roses  
Plants**



**FRUIT  
SHADE  
AND  
ORNAMENTAL  
TREES**



**NARCISSI  
TULIPS**

**HYACINTHS  
CROCUS**

**Dutch Bulbs Direct from our Holland Grower**

**PORTLAND SEED COMPANY  
PORTLAND, OREGON**

# Bulb Planting Tables

## Number of Bulbs Required for Planting Different Sized Beds of Tulips or Hyacinths

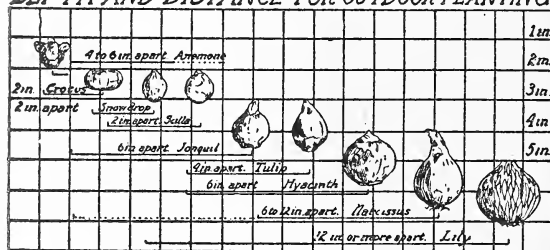
Everyone can afford a bed of flowering bulbs. They bloom so early, make such handsome and showy displays and require so little care that their general use is increasing each year. The best effect in bulb beds is obtained by planting to solid colors, but if variety is wanted we would not advise you to select over two or three colors. Too many colors spoil the whole effect. A very satisfactory way is to plant a solid center with one or two of the outer rows of another color, a pleasing effect is obtained by dividing the bed into four sections, planting each in a separate color. As the circular bed is the most popular and satisfactory, we use it as a basis to figure on. If you want a square or oblong bed the cultural directions of the different bulbs will give you the distance bulbs should be planted apart.

In ordering bulbs for the mixed beds and for the number contained in the two outer rows of different sized beds refer to table below.

Diameter of Bed	Total Number of Bulbs Required		Number of Bulbs Required for Two Outer Circles Only	
	Tulips	Hyacinths	Tulips	Hyacinths
3 feet.....	64	36	50	31
4 feet.....	113	50	68	45
5 feet.....	177	80	87	57
6 feet.....	254	120	104	69
7 feet.....	346	160	122	82
8 feet.....	452	210	140	95
9 feet.....	573	270	160	110
10 feet.....	707	330	180	120

NOTE—Plant the Tulips four inches apart in the rows and the rows four inches apart. Hyacinths six inches apart and the rows six inches apart. Narcissi same as Hyacinths. For Crocus, Snowdrops, etc., double the number of Tulips. See chart below.

### DEPTH AND DISTANCE FOR OUTDOOR PLANTING



The sooner Hyacinths and Daffodils are planted the better they will grow and force.

### "Diamond" Fancy Lawn Mixture

GROWING tests have proved our "Diamond Quality" Lawn Grass to give satisfactory and permanent results, being specially prepared for our Western soils and climate, and will produce an evergreen velvety turf.

Price, per lb., postpaid, 65c freight or express; not prepaid, per lb., 60c.

Sow one pound to 400 square feet, 10 to 15 pounds to a 50-foot lot.

## Suggestions for Tulip Beds

No. 1—Circular Bed of Vermilion Brilliant with edging of two rows of Chrysolora, yellow.

No. 2—Round Bed in four sections, first quarter Cottage Maid, pink; second, Chrysolora, yellow; third, Artus, scarlet; fourth La Reine, white. This arrangement is effective with two colors, red and white being best.

No. 3—A Circular Bed of pleasing variety is made with Kaiserskroon scarlet edged gold, in center, Belle Alliance scarlet, next, then La Reine white, and on the outside rows Chrysolora yellow.

No. 4—Bed in Two Sections or Rows; Van der Neer, violet lilac; Primrose Queen, rich sulphur yellow. A charming unusual effect in blue and yellow.

No. 5—Double Tulips—Rubra Maxima, scarlet, and White Murilla give a fine showing, holding their form and lasting well.

No. 6—Single May Flowering—White Swan, Gesneriana Spathulata, rich crimson and Bouton d'Or, pure deep yellow, can be used in pleasing combination. They are tall growers (18 inches) and the best of their colors

Solid Beds of Murillo, early double light pink, Rose Grisdelin, early single, delicate pink, Couleur Cardinal, bronze scarlet and Pink Beauty, a lovely flower, the finest pink, are very attractive and give a display that cannot be excelled by any combination of colors.

Plant a shallow rooting annual in your Tulip bed, and you will not have a bare spot when the bulbs are gone. It also keeps the weeds down. Forget-me-nots, Petunias, Pinks, Poppies, Verbenas, Candytuft, are a few of the best. Low growing perennials are also good, as they need not be disturbed. It is best not to lift Tulips each year. Leave them in the ground. They bloom better.

**F**LORISTS, GARDENERS AND LARGE BUYERS OF BULBS should submit their lists for special prices on the number of bulbs they use. We can save you money, and our "Diamond Quality" Bulbs will give you satisfaction.



# AUTUMN CATALOG



FALL 1921 :: SPRING 1922

*I*N presenting our Fall Catalog, we wish to express to our many friends our thanks and appreciation of their liberal patronage, that has made it possible for us to offer for their approval our present splendid and complete assortment of standard varieties and novelties. Our large importations of LILIES from Japan, and our full line of FRENCH and DUTCH FLOWERING BULBS, are now arriving in excellent condition. These are the finest stocks from the most reliable growers, and they come direct to us in their original packages.

Our FRUIT TREES, BERRIES, ORNAMENTAL SHADE TREES, etc., are grown for us in and around Portland. In no other place does Nursery stock grow to such perfection as in our own locality. A recent inspection in the field shows the quality to be unsurpassed; clean, well grown, free from disease and pests, and, in strict compliance with our State Horticultural Laws it is always inspected before shipping.

OUR ROSES—Nowhere in the known world do roses grow to the perfection attained in our own favored locality. This is no idle boast but an established fact. We are justly proud of our splendid field grown roses. The well known sorts and the newer types we offer are only such as are known to thrive here. We do not attempt to list all varieties of roses. There are hundreds of them that have no value in the open ground and thousands that have no value anywhere.

It is our earnest endeavor to offer only such varieties as are known to be desirable, and nowhere, we assure you, can you obtain better stocks or better values. We trust by our honest and prompt attention to merit your further approval.

FLOWERS, SHRUBS and TREES, and a well kept lawn add greatly to the value and beauty of your home, and time devoted to their care should prove a helpful and fascinating diversion, as well as a very profitable one.

## IMPORTANT—PLEASE READ CAREFULLY

**WHEN TO ORDER**—We issue this Catalog in September, but your order placed at any time will go forward in season, as follows:

**FLOWERING BULBS**—Begin to arrive in September, deliveries being complete by December 1st, except Cannas, Dahlias, Gladioli, etc., which are not ready until after February 1st.

**ROSES**—Our large two-year old field grown roses are ready for delivery from November until May, one-year old mailing size from January to August. The earlier you set them the better they will grow.

**PALMS, POT and HOUSE PLANTS**—Palms and plants should be potted as soon as possible after arrival and watered well for a day or two so as to settle the earth around the little fibrous roots.

**Order Early**—it helps us to please you.

**FRUIT, SHADE AND ORNAMENTAL TREES AND SHRUBS**—We ship these from November until May and recommend fall and early spring planting. If you do not want to plant on arrival, dig a trench and “heel” your trees in. If the ground is frozen, put them in a cellar and keep the roots damp.

**COMPLAINTS OR PRAISES**—If our goods and treatment please you, tell others; if anything is wrong, tell us quickly, so that we can make it right. Our best efforts will be given to filling all orders in a satisfactory manner.

**WE NEVER SUBSTITUTE** without permission from our customer. But as many items are sold out as the season advances, when requested, we will substitute varieties of equal merit maturing about the same season. But always labeled true to name.

## MAIL and EXPRESS CHARGES on BULBS

Only Flowering Bulbs are Prepaid at Catalog Prices to points in the United States. Alaska, Canadian and foreign postage extra. All other items F. O. B. Nursery unless otherwise stated.

WE CANNOT SEND PERISHABLE GOODS C. O. D.—CASH MUST ACCOMPANY ALL ORDERS.

SEND MONEY by postoffice or express money order, bank draft or registered letter.

NO GOODS CHARGED UNLESS YOUR CREDIT IS ESTABLISHED WITH US.

**HOW DO YOU WANT YOUR ORDER SHIPPED?** Your order will be shipped any way you wish—by express, parcel post or freight. If you are in doubt about the best way to have your order sent, leave it to us. We will ship it in the most economical way.

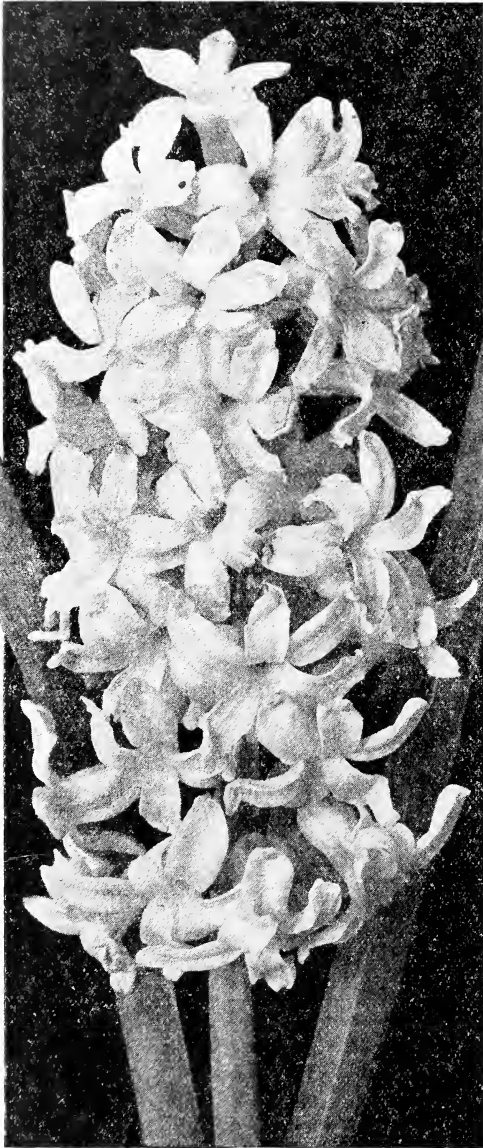
We give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, nursery stock, roots or plants we send out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

PORTLAND SEED COMPANY

THIS CATALOG IS ISSUED BEFORE PRICES ARE ESTABLISHED, THEREFORE PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE; IF LOWER, YOU WILL BE PROTECTED.

# HYACINTHS

**O**UR named Hyacinths have massive spikes of bloom of the most delicate and beautiful shades from pure white through blush to pink, rose and deepest red, from dainty porcelain shades of blue to blue black and from cream to yellow, apricot and orange. Their dainty wax-like flowers, rare fragrance and easy culture endear them to every grower and they can be had in bloom from early winter to late spring.



SINGLE HYACINTH

*When ordering Hyacinths for bedding refer to the table inside of front cover for number of bulbs required.*

*The assorted bedding Hyacinths we offer are fine large bulbs that will produce splendid spikes of bloom in the best colors. They are very low in price and much superior to the mixed bedding Hyacinths commonly sold and which are generally so variable in their shades of color as to spoil the general effect of the planting.*

**OUR "A" GRADE**—For those of our customers who want to produce Hyacinths of the grandest size and finest quality, we recommend our "A" grade. These are extra choice, large, round, solid bulbs, selected especially for our best trade by our Holland growers. They will produce those handsome, mammoth flowers so highly prized, and are excellent for forcing and pot culture.

**OUR "B" GRADE**—This grade is usually bought, and we sell more of this price and size bulb than any other. Our "B" grade is equal, if not superior, to the "First" or "Select Grade" offered by many seed stores.

**OUTDOOR CULTURE**—The preferable season is October, November and December, but bulbs give good results if planted somewhat later. Plant so that the tops of the bulbs will be from two to three inches below the surface and five to eight inches apart. In preparing the bed, see that it is well drained, so that the bulbs will not rot during our long wet winters. After flowering, if the beds are wanted for late spring planting take up the bulbs, top and roots, and "heel in" in some corner of the garden until the bulbs mature, after which they should be spread out in an airy room to dry, and kept in a cool dark place until time for replanting the following autumn.

**INDOOR CULTURE IN POTS**—Bulbs for winter blooming can be planted from September until December—the earlier the better. Plant one bulb to a four-inch, or three to a six-inch pot. Then place in a cool dark cellar, watering well. The whole success of pot culture depends on getting the roots well established in the pots, at a low temperature of say, 40 to 50 degrees, before you begin to force the tops. From four to six weeks is not too long to leave them in a dark, cool place. After this the bloom is easily developed by giving light, heat and water, and one can have a supply of flowers from Christmas until Easter by regulating the time of bringing them to light.

**CULTURE IN GLASSES**—When it is desired to grow Hyacinths or Narcissus in water they should be placed so that the base of the bulb merely touches the water. The glass should then be set in a cool, dark place, until filled with roots, when they may be brought into the light. Fill the glasses with fresh water every few days. Give as much fresh air as possible without letting the plants stand in a draught, and as nearly as possible at a temperature of 60 degrees until the spikes are developed.

# HYACINTHS—EARLY SINGLE

PRICES	A Grade.....	Each	20c;	Doz.....	\$2.00; 100.....	\$15.00	} Postpaid
	B Grade.....	Each	15c;	Doz.....	1.65; 100.....	12.00	
	C Grade.....	Each	15c;	Doz.....	1.40; 100.....	9.00	

State varieties preferred

## Single Red and Pink

**CARDINAL WISEMAN**—Bright rose; fine broad spike.

**GENERAL PELISSIER**—Brilliant carmine, compact spike; an early forcer.

**GERTRUDE**—Fine rosy pink; excellent sort for forcing or bedding. Flowers large.

**GIGANTEA**—Fine blush pink; giant spikes.

**LADY DERBY**—(New)—Lovely light rose pink, large spike.

**LA VICTOIRE**—(New)—Brilliant carmine red, forces early, extra fine.

**MARCONI**—Bright pink, broad spikes, beautiful flower. New.

**MORENO**—Extra fine pink, very large spikes and bells; forces easily. Highly recommended.

**QUEEN OF PINKS**—Large compact flower, bright pink. An exhibition variety.

**ROI DES BELGES**—Bright scarlet; well formed compact truss of medium size bells.

## Single Yellow

**CITY OF HAARLEM**—Bright golden yellow, large spike, extra fine.

**KING OF YELLOWS**—Bright golden yellow, grand spikes, a superior bedding variety.

**YELLOW HAMMER**—Golden yellow, extra fine flower, forces easily; exhibition variety.

## Single Violet and Purple

**L'ESPERANCE**—Dark violet, very showy, good truss, late.

**MAUVE QUEEN (Henriette)**—Mauve, good spike.

## Single Blue

**GRAND LILAS**—Extra fine porcelain blue, grand large spikes and bells; forces easily.

**GRAND MAITRE**—Fine deep porcelain blue; very large broad, well formed spike.

**KING OF BLUES**—Deep glossy blue, large compact spikes. The finest dark blue.

**PERLE BRILLANTE**—Fine light blue, extra large spike, a grand novelty which deserves attention.

**QUEEN OF THE BLUES**—A beautiful light blue with silvery sheen; a large, handsome flower.

## Single Pure White

**ARENTINE ARENDSE**—Grand, pure waxy white flower, with large spike and bells.

**LA GRANDESSE**—Extra fine snow white, large spikes, a grand exhibition variety.

**L'INNOCENCE**—One of the earliest; pure white fine for forcing.

**MADAM VAN DER HOOP**—Pure white. Fine for general planting; erect habit.

**QUEEN OF THE WHITES**—Pure white, fine large spike, dwarf habit. Splendid for late pot-work. (New.)

**LORD BALFOUR**—Dark lilac, broad fine shaped large truss, well set with large waxy bells.

**SIR WILLIAM MANSFIELD**—Bright purple, good truss.

## Select Double Named Hyacinths

While the flowers of Double Hyacinths are large and beautiful, the spikes are not generally so full of bells as those of the single sorts.

All First Size, Large, Solid, Select Bulbs. Price, each 20c; dozen \$2.00

### Double White

**ISABELLA**—Fine blush white; grand spike.

### Double Blue

**GARRICK**—Deep azure blue, very large spike.

## DIAMOND QUALITY BEDDING HYACINTHS DISTINCT COLORS

A superior grade of selected bulbs, generally used for planting outdoors in making up beds borders or large displays, but are equally good for forcing.

**SINGLE**—Pink, Red, Pure White, Yellow, Dark and Light Blue.


Each 15c; doz. \$1.50. Per 100 \$10.00.

## DIAMOND QUALITY BEDDING HYACINTHS ASSORTED COLORS

Mixed Straight Colors

**SINGLE**—Pink, Red, Pure White, Yellow, Dark and Light Blue.

Each 15c; 2 for 25c; doz. \$1.25; 100 \$8.50.

 Bulbs prepaid in U. S. only. Postage to Canada, Alaska and outside points extra

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

# TULIPS

## Extra Select Large Solid Bulbs

**W**HETHER planted in masses or small beds, Tulips produce a handsome and striking effect. They are equally desirable as pot plants and are always sure to bloom. Any good garden soil will grow them to perfection and no bulb makes such a gorgeous display of blossoms with so little cultivation.

**CULTURE**—The culture of Tulips is similar to that of Hyacinths, except that the bulbs should not be planted quite so deep, and from three to six inches apart. All single Tulips force easily. For indoor planting we have regular Tulip pans. Plant four bulbs to a six-inch pan; eight to an eight-inch pan, etc.

The letters A, B, C, following the varieties, indicate their earliness of bloom; the A's are the earliest, B's follow, etc. The average height in inches is also given for your benefit in selecting for bedding purposes.

**Outdoors**—Early or late planting does not seem to have much effect on Tulips, but they should be planted in fresh, rich soil, but not freshly manured, manuring should be done six months before planting.

## Single Early Scarlet Tulips

**ARTUS, B 7**—Deep, brilliant scarlet, fine for forcing or bedding. Each 7c; doz. 65c; 100 \$4.25

**AUGUSTA**, bright deep rose, large globular shape; splendid for forcing. A splendid novelty of great merit; extra recommended for market and for bedding. Each 8c; doz. 90c; 100 \$6.25

**BELLE ALLIANCE, B 7**—Brilliant scarlet, sweet scented, excellent for forcing and bedding.

Each 7c; doz. 80c; 100 \$5.50

**BRILLIANT STAR**, brilliant scarlet, black centre, large flower, tall, erect stem. Each 12c; doz. \$1.20; 100 \$8.75

**COULEUR CARDINAL, B 10**—Brilliant crimson slightly dewed outside but inside glittering scarlet, large fine shaped flower of very great substance, strong stem. A grand variety for medium early and late forcing and splendid for all bedding purposes. Each 10c; doz. \$1.00; 100 \$7.50

**CRAMOISE BRILLIANT, B 10**—(Sparkler)—Bright vermillion, large flowers of great substance, fine forcer. Ea. 7c; doz. 65c; 100 \$4.50

**DUC VAN THOLL COCHINEAL**—Rich vermillion, very large flower, very early and easy forcer. Each 7c; doz. 75c; 100 \$5.25

**PRINCE OF AUSTRIA, B 12**—Bright orange vermillion, sweet-scented flower, fine forcer and bedder. Each 8c; doz. 80c; 100 \$5.75

**VERMILION BRILLIANT, B 8**—A beautiful flower, forces easily and early; one of the largest and finest scarlets. Each 7c; doz. 75c; 100 \$5.25

## Fine Single Mixed

All colors and shades; fine for bedding.

Each 6c; doz. 55c; 100 \$3.25

## Single White

**ALBION, B 10**—(White Hawk)—One of the finest pure white Tulips in cultivation for forcing and bedding; flowers snow white, very large and of great substance.

Each 8c; doz. 80c; 100 \$6.75

**LA REINE, B 8**—Pure white; best white Tulip for forcing and bedding.

Each 7c; doz. 65c; 100 \$4.50

## Single Early Violet

**VAN DER NEER, A 10**—Large violet purple, fine form, early.

Each 15c; doz. \$1.50; 100 \$10.50

**WOUVERMAN, B 8**—Purple violet, large flowers; fine for out-door planting.

Each 10c; doz. 95c; 100 \$6.75



# SINGLE EARLY TULIPS—Continued

## Single Yellow

**CHRYSOLORA, A 9**—Pure golden yellow, large and fine, excellent for bedding.

Each 7c; doz. 70c; 100 \$4.75

**GOLD FINCH, B 9**—Golden yellow, sweet scented; forces easily and early; a good bedding sort. Each 8c; doz. 75c; 100 \$5.00

**KING OF THE YELLOWS**—Deep golden yellow, well shaped flower, round on the top. One of the earliest for forcing.

Each 8c; doz. 75c; 100 \$5.25

**MON TRESOR**—Pure golden yellow, very large flower, the best yellow Tulip for early forcing.

Each 8c; doz. 85c; 100 \$6.00

**THOMAS MORUS, A 12**—Apricot orange. The finest forcing Tulip of its color, very early.

Each 7c; doz. 65c; 100 \$4.25

**YELLOW PRINCE, B. 9**—Sweet scented; one of the very best for forcing; a fine yellow.

Each 7c; doz. 65c; 100 \$4.25

## Early Double Tulips

Are used mostly for outdoor planting and bloom a little later than the early; being double and full, the blossoms last longer. This, with the great variety of kings, makes them favorites with many.

**BOULE DE NEIGE (Purity) A**—Pure white large paeony-like flower.

Each 8c; doz. 75c; 100 \$5.35

**COURONNE D'OR, B 8**—The best double yellow for forcing.

Each 8c; doz. 75c; 100 \$5.15

**MURILLO, B 8**—Decidedly the best double pink Tulip for forcing or bedding; flowers large and full.

Each 7c; doz. 65c; 100 \$4.50

**RUBRA MAXIMA, B 9**—Bright crimson scarlet; splendid for bedding; cannot be forced, flowers large. Each 7c; doz. 75c; 100 \$5.25

**SALVATOR ROSA, A 7**—Beautiful deep rose, flamed with white; fine for forcing.

Each 10c; doz. \$1.00; 100 \$7.25

**TITIAN**—Scarlet, edged yellow. Height, 12 inches.

Each 9c; doz. 90c; 100 \$6.50

**TOURNESOLL, A 9**—Bright red, with yellow edge, sweet scented, large flower. Easily forced.

Each 10c; doz. \$1.00; 100 \$7.50

## Parrot Tulips

Parrot Tulips have immense flowers of brilliant and varied colors, with petals curiously fringed or cut. They are very showy and should be grown in every flower garden.

**ADMIRAL DE CONSTANTINOPLE**—Orange red, good size.

**CRAMOISE BRILLIANT**—Beautiful carmine red, large flowers; very fine.

**MARKGRAAF**—Inside rich orange, outside scarlet and yellow, feathered, extra fine.

Prices: Each 8c; dozen 75c; 100 \$5.50.

## Single Pink

**PINK BEAUTY, B 11**—Bright rose pink shading to blush near yellow center. Has no equal in its class.

Each 10c; doz. \$1.00; 100 \$7.25

**PROSERPINE, A 12**—Fine glossy carmine pink, large and early forcer and a splendid bedding Tulip.

Each 12c; doz. \$1.30; 100 \$10.00

**ROSE LUISANTE, B 9**—Deep pink, extra fine bedder; forces well.

Each 9c; doz. 90c; 100 \$6.25

**ROSE GRISDELIN, B 7**—Beautiful delicate pink.

Each 8c; doz. 75c; 100 \$5.25

## Single Variegated Tulips

**COTTAGE MAID, B 9**—White bordered with pink, extra fine.

Each 8c; doz. 80c; 100 \$5.75

**DUCHESS DE PARMA, C 10**—Terra Cotta with yellow edge, good bedding variety.

Each 8c; doz. 75c; 100 \$5.00

**KEIZERSKROON, B 9**—Bright red, with yellow edge; very large, no other Tulip makes such a handsome bed.

Each 7c; doz. 65c; 100 \$4.50



DOUBLE TULIP, MURILLO

**EARLY DOUBLE MIXED**—This mixture contains a large and choice assortment of all colors and shades; very suitable for outdoor planting.

Each 6c; doz. 60c; 100 \$4.00

## Suggestions for Tulip Beds. Inside Front Cover

Bulbs prepaid in U. S. only.

Write for 1922 Annual

Type of  
May-  
Flowering  
Tulips

*Gesneriana  
Spathulata*



If moles trouble  
your tulips sink  
one-inch mesh  
poultry netting  
two feet wide in  
the ground around  
your Bulb Beds  
so the top is about  
level with the  
surface.

ELLE N  
WILMOT—  
Lemon yellow

Each 8c; doz. 80c;  
100 \$5.75.

WHITE SWAN—A lovely egg-  
shaped pure white flower on long  
stems; extra fine cut flower.

Each 8c; doz. 85c; 100 \$5.50

## SINGLE TULIPS

### MAY FLOWERING

**T**HESE are to be grown in the open ground only, each individual blossom being a marvel of beauty in itself. They grow from 18 to 24 inches high and appear at their best when used in the border, the foreground of shrubbery or buildings, or out of the way corners of garden, where, if left undisturbed, they will bloom with increasing beauty for years. They are extremely hardy and the flowers borne on long, strong stems are good keepers when cut.

**BOUTON D'OR**—The only late pure deep golden yellow.  
Each 8c; doz. 70c; 100 \$4.75

**CALEDONIA**—Bright orange scarlet. Fine for outdoor cutting.  
Each 8c; doz. 70c; 100 \$5.00

**FAIRY QUEEN**—Rosy heliotrope, broadly margined yellow; inside petals brownish red.

Each 8c; doz. 80c; 100 \$5.50

**GESNERIANA SPATHULATA**—Blossoms large; color rich crimson with dark center.

Each 9c; doz. 85c; 100 \$5.75

**GESNERIANA LUTEA**—Deep yellow, fine large flower.

Each 8c; doz. 70c; 100 \$5.00

**ISABELLA**—(Shandon Bells)—Cream turning to carmine, large.

Each 8c; doz. 75c; 100 \$5.50

**INGLESCOMBE PINK**—Salmon pink with blue base; one of the finest of the large May flowering Tulips.

Each 8c; doz. 80c; 100 \$5.50

**INGLESCOMBE SCARLET**—Same form as the pink type. Color a rich scarlet black base.

Each 9c; doz. \$1.00; 100 \$7.50

**INGLESCOMBE YELLOW**—A large fine yellow of perfect form; may be used for yellow Darwin.

Each 8c; doz. 80c; 100 \$5.50

**LA MERVEILLE**—A large bright scarlet, suffused apricot orange; graceful long pointed petals.

Each 9c; doz. 85c; 100 \$5.50

**MRS. MOON**—Large orange yellow. The best of its color.

Each 9c; doz. 90c; 100 \$6.50

**ORANGE KING**—Bright deep orange, fine shape, sweet scented, excellent for beds and borders.

Each 7c; doz. 70c; 100 \$5.00

**PARISIAN YELLOW**—Golden yellow, large flower, very late.

Each 8c; doz. 75c; 100 \$5.25

**PICOTEE**—White with a pink border; fine for cutting.

Each 8c; doz. 75c; 100 \$5.15

## Breeder Tulips

**O**N account of the fast growing demand for these mostly bronze, brown and buff toned Tulips we have increased our stock with the best varieties and made out a more extensive list of names with description of color, etc. of the different varieties.

The more these 17th and 18th Century Tulips with their bold flowers and grave colors become known the more the demand for the same will increase.

**BRONZE KING**—Bronze with olive base.

Each 11c; doz. \$1.20; 100 \$8.75

**BRONZE QUEEN (Clio)**—Light buff, inside glittering yellowish brown; flower of great substance

Each 10c; doz. \$1.05; 100 \$7.75

**CARDINAL MANNING (Goliath)**—Rosy violet, flushed rosy brown, large flower.

Each 8c; doz. 90c; 100 \$6.25

**GODET PERFAIT**—Bright violet, clear and refined. A very long lasting flower on tall strong stem.

Each 15c; doz. \$1.50; 100 \$11.75

**GOLDEN BRONZE**—Golden bronze with deep gold base. A striking variety.

Each 15c; doz. \$1.65; 100 \$13.00

**PRINCE OF ORANGE (Orange Beauty)**—Orange red with narrow golden edge. Superbe, velvet brown.


Each 9c; doz. \$1.00; 100 \$7.50

**TURENNE (Mac Mahon)**—Dark blue edged brown-bronze, very large flower.

Each 15c; doz. \$1.50; 100 \$11.75

**Yellow Perfection**—Light bronze yellow.

Each 9c; doz. \$1.00; 100 \$7.50

 *Bulbs prepaid in U. S. only. Postage to Canada, Alaska and outside points extra*

**BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG**



## GIANT DARWIN TULIPS

**DARWINS** are rapidly becoming the most popular Tulip for outside planting. They flower in May, are of giant size and have a majestic beauty distinctively their own that is invaluable for garden and landscape effects. They come in the most varied and brilliant colorings, and their immense globular flowers of perfect form and satiny, wax-like texture, long stems and lasting qualities, make them ideal for cutting.

For best effects Darwins should be planted in clumps of from 15 to 25 bulbs of one color, or in the foreground of shrubs, trees, borders, or buildings. They prefer partial shade, but will thrive in any location.

**CLARA BUTT**—Bright apple blossom pink, a brilliant and beautiful self-color. Conceded by all critics to be the most magnificent of the Darwin type; splendid for forcing and flowers, must be grown cool when forced.

Each 8c; doz. 85c; 100 \$6.00

**DREAM**—Beautiful soft lilac self-colored, extra large.

Each 9c; doz. 90c; 100 \$6.25

**EUROPE**—Salmon scarlet, shaded rose.

Each 9c; doz. 90c; 100 \$6.25

**FARNCOMBE SANDERS**—Magnificent brilliant scarlet, a finely formed giant flower; the best red Darwin.

Each 10c; doz. \$1.00; 100 \$7.50

**GRETCHEN**—Large globular delicate pink flower, inside soft blush.

Each 7c; doz. 65c; 100 \$4.50

**HIPPOLYTE**—A unique color among Darwin sorts being a beautiful blue-violet shade.

Each 10c; doz. \$1.00; 100 \$7.50

**LA CANDEUR**—(White Queen)—Splendid white flower tinged delicate blush; large size.

Each 8c; doz. 75c; 100 \$5.00

**LA TULIP NOIRE**—The Black Tulip—Flowers large, lustrous and attractive, of fine form, grows 24 inches high. A rare novelty.

Each 8c; doz. 80c; 100 \$5.75

**KING HAROLD**—Deep garnet red with purple black base. Splendid variety for border use. Strong stems.

Each 8c; doz. 80c; 100 \$5.75

**MASSACHUSETTS**—Large flowers of vivid pink with white center. Superb for outdoor planting.

Each 8c; doz. 80c; 100 \$5.50

**MME. KRELAGE**—Bright pink, lighter edge.

Each 10c; doz. \$1.00; 100 \$7.25

**NORA WARE**—Lovely silvery Lilac with white suffusion. A very popular variety; height 20 inches.

Each 9c; doz. 90c; 100 \$6.25

**PRIDE OF HAARLEM**—Brilliant salmon rose, shaded scarlet, blue at base; of grand size and form.

Each 9c; doz. 85c; 100 \$6.00

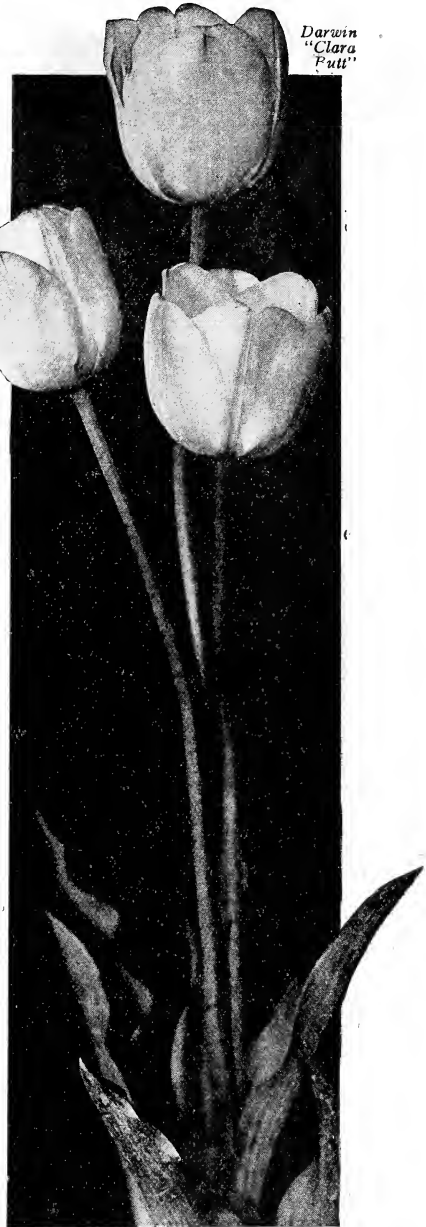
**REV. EWBANK**—Soft mauve, light edging.

Each 8c; doz. 80c; 100 \$5.75

**WILLIAM COPELAND**—Bright rosy-lilac. Splendid for early forcing. Can be had in fully developed flowers, early in January.

Each 10c; doz. \$1.00; 100 \$7.25

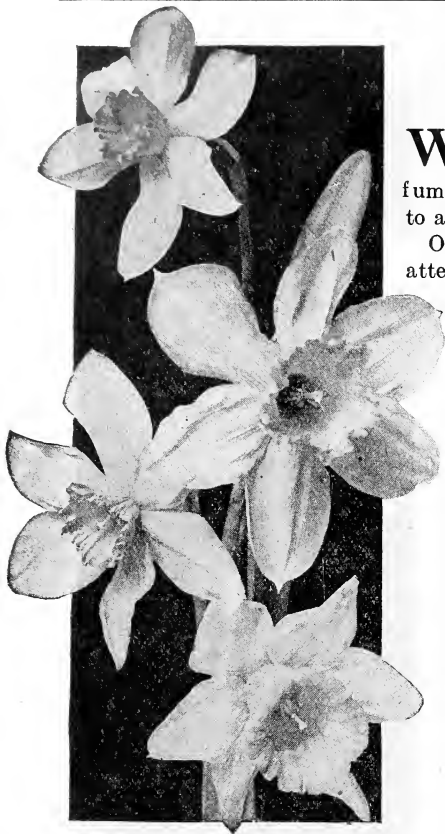
**MIXED**—Each 7c; doz. 75c; 100 \$5.35.



*Don't Fail to Plant a  
Few Clumps of  
DARWINS*

They make a wonderful  
garden display and are  
beautiful and lasting  
when cut.

For *Gladioli, Dahlias, Cannas and Spring Flowering Bulbs* see our General Catalog. Ready in January.



"DIAMOND QUALITY"

## NARCISSI

**WE** CONSIDER NARCISSI to be the most satisfactory and valuable of all flowering bulbs; their exquisite perfume, earliness, free blooming and keeping qualities endear them to all who have grown them.

Once planted in the field or garden they need no further attention but will thrive and perpetuate themselves, increasing in beauty for years.

### Popular Types

**POLYANTHUS**—Flowering in clusters; the "Paper White" being the earliest, easiest to force and best known of this class

**"DAFFODILS"**—The trumpet types are the most widely known, and some of the best garden varieties are of this class; they also force easily, making ideal pot plants

**"STAR NARCISSUS"**—The "Chalice Cupped" are the daintiest and most charming of all types. To this class belong the **Incomparabilis**, **Barril**, **Leedsii**, etc., all splendid garden varieties that will give perfect results when grown in pots or forced.


**POETICUS** or **"PHEASANTS EYE"** NARCISSUS—The White flowered give us some of the best of the later garden types, being hardy, sweet scented, very chaste and beautiful. Some varieties force easily, others are best suited to the garden or field

**POETAZ NARCISSI**—Are hybrids of **Poeticus** and **Polyanthus** types, forming a distinct and beautiful, free blooming, large cluster flowered class, equally valuable for bedding or forcing; extremely hardy.

### Culture of Narcissi

**Outdoor Culture**—Plant in early fall if possible but plantings as late as Christmas will give excellent results. The depth to plant is  $1\frac{1}{2}$  the depth of the bulb. This gives a covering of 2 to 3 inches of soil. Any good garden soil which has not been recently manured will give satisfactory flowers, but a deep, moist loam is best. If the ground is dry or sandy it should be dug deeply, well manured and an annual such as potatoes grown the year previous. If your soil is light and you do not want to take off a crop before planting, give a light dressing of lime to the surface and work in a layer of well rotted manure a foot below, so as to be out of reach of the bulbs; this layer is to hold the moisture, not as a fertilizer. The best fertilizer is ground bone. This can be used with safety on poor sandy soil.

**Pot Culture**—The Bulbs should be planted as soon as received as earliest plantings insure finest flowers. In potting use good, turfy loam, but let no manure of any kind, well rotted or otherwise, touch the bulb. Set in a cool, dark room for a month or two, until well rooted, then remove to the light for flowering. (All bulbs prefer a cool temperature. Be careful not to grow them too warm.) Do not cultivate too much, as extra vigor of growth injures the purity of color. Some Narcissi prefer partial shade but grow splendidly in any situation.

 *In Planting Narcissi large groupings of irregular outline give most pleasing effects, shun symmetrical lines or 'ormal designs.*

### Double Daffodils

**ALBA PLENA ODORATA (6)**—"The Double White Poet's Narcissus."—Double, snow-white flowers, exquisitely scented; late flowering; cannot be forced.

Each 6c; doz. 60c; 100 \$4.00

**ORANGE PHOENIX (3)**—(Eggs and Bacon)—Beautiful double white flowers, with orange center; splendid for pot culture, cutting and garden planting.

Each 9c; doz. 95c; 100 \$7.00

**VAN SION**—(*Telamonius Plenus*) (2)—"The True Double Yellow Daffodil." Rich golden yellow perianth and trumpet. Thrives and blooms in increasing profusion every spring and is also one of the best winter flowering and forcing sorts. Each 9c; doz. 95c; 100 \$7.00

**VAN SION No. 2**—Ea. 7c; doz. 70c; 100 \$5.00

**SILVER (SULPHUR) PHOENIX (3)**—Very large flowers; pale creamy white, shading to primrose. Each 9c; doz. 95c; 100 \$6.75



## DAFFODILS

**THE TRUMPET TYPES OF NARCISSI** are the true old fashioned form of Daffodils, they are the largest and most glorious of all Narcissi and are perfectly hardy everywhere. Can also be grown in pots.

**To enable you to plant for succession of bloom, we have numbered the varieties in their relative earliness. No. 1, early March; No. 2, late March; No. 3, early April; No. 4, late April; No. 5, May.**

**ALBICANS—(2)—**The "White Spanish Daffodil"—Cream white, with silvery white trumpet slightly flushed with primrose and elegantly recurved at brim. Each 9c; doz. 90c; 100 \$6.25

**BARRII CONSPICUUS—(4)** Long-stemmed flowers, with beautiful broad-petaled perianth; sparkling canary yellow, with deep golden cup, richly edged with orange scarlet.

Each 8c; doz. 85c; 100 \$6.00

**BICOLOR EMPRESS—(3)—**Perianth snow-white, trumpet rich yellow, serrated and flanged at the edges, large in outline and of rare beauty.

**Double Nose—Ea. 12c; doz. \$1.35; 100 \$10.25**

**First size—Ea. 11c; doz. \$1.25; 100 \$9.00**

**BICOLOR VICTORIA—(2)—**A magnificent large variety, bold and erect. Sweet scented. Perianth white and of great substance; trumpet rich yellow.

**Db'l Nose—Each 15c; doz. \$1.25; 100 \$10.50**

**First size—Each 11c; doz. \$1.20; 100 \$9.00**

**EMPEROR—(3)—**Perianth primrose; trumpet large, rich deep yellow. One of the finest Daffodils grown.

**Db'l Nose—Each 12c; doz. \$1.30; 100 \$10.00**

**First size—Each 9c; doz. \$1.00; 100 \$ 7.50**

**GOLDEN SPUR—(1)—**Extra large, bold, rich, golden yellow flowers, foliage very broad and striking; unsurpassed for gardens, pots and forcing.

**Db'l Nose—Each 11c; doz. \$1.25; 100 \$9.00**

**First size—Each 9c; doz. \$ .90; 100 \$6.25**

**GLORY OF LEIDEN—(4)—**A bold, giant daffodil, with golden yellow trumpet, perianth lighter, forces well, and very hardy in open ground. Each 15c; doz. \$1.30; 100 \$10.00

**KING ALFRED—**Rich golden yellow. Very large, broad, elegantly twisted and beautiful recurved, trumped, broad massive, well formed perianth. The remarkable handsome flowers which are of great substance stand horizontal on their strong stems.

**Db'l Nose—Each 25c; doz. \$2.50; 100 \$21.00**

**First size—Each 20c; doz. \$2.00; 100 \$16.25**

### Poeticus Varieties

The large, single blossoms, 2 to 2½ inches across, are of a snowy whiteness, intensified by the exquisite golden colored cups, ringed like a pheasant's eye, with red and green.

**GLORY OF LISSE—(4)—**The new Poeticus, largest of the type. Snowy white, perfectly formed. Each 10c; doz. \$1.00; 100 \$7.50

**POETICUS (Pheasant's Eye)—(5)—**Pure white flowers, orange cup, edged with red. Very useful for cutting in spring; are perfectly hardy out of doors—will bloom year after year. Does not force. Each 8c; doz. 75c; 100 \$5.00



Daffodils  
once  
planted  
need not be  
disturbed  
for years.  
They will  
increase  
and bloom  
freely and  
are hardy  
everywhere.

**POETICUS ORNATUS—(4)—**(The Improved Poeticus)—Pure white cup, edged with scarlet. Good forcer and earlier than Poeticus. Db'l Nose—Each 7c; doz. 80c; 100 \$5.50  
First size—Each 6c; doz. 50c; 100 \$3.00

**LUCIFER—**Large white perianth, cup intense glowing orange-red. First class certificate R. H. S. Each 9c; doz. 95c; 100 \$6.85

**MAD. DE GRAAFF—(4)—**Opens with soft primrose trumpet passing to white, forces well and for garden or naturalizing in grass has no superior. Each 12c; doz. \$1.30; 100 \$10.00

**SIR WATKIN—Incomparabilis Type—(2)—**"The Giant Chalice Flower," or "Big Welshman" Immense, long stems, flowers of rich light yellow, with a large, dark cup, tinted with orange.

**Db'l Nose—Each 17c; doz. \$1.75; 100 \$10.25**

**First size—Each 9c; doz. 90c; 100 \$6.50**

### Cluster-Flower—Poetaz Narcissi

These are hardy hybrids between Polyanthus and Poeticus, very vigorous, bearing in profusion clusters of beautifully fragrant flowers. Good keepers, forcing or bedding.

**ELVIRA—**Broad, white petals, deep golden cup, with scarlet edge, delicious fragrance.

Each 9c; doz. 95c; 100 \$9.00

**IRENE—**Perianth yellow, cup orange.

Each 9c; doz. 95c; 100 \$8.50

### Jonquils

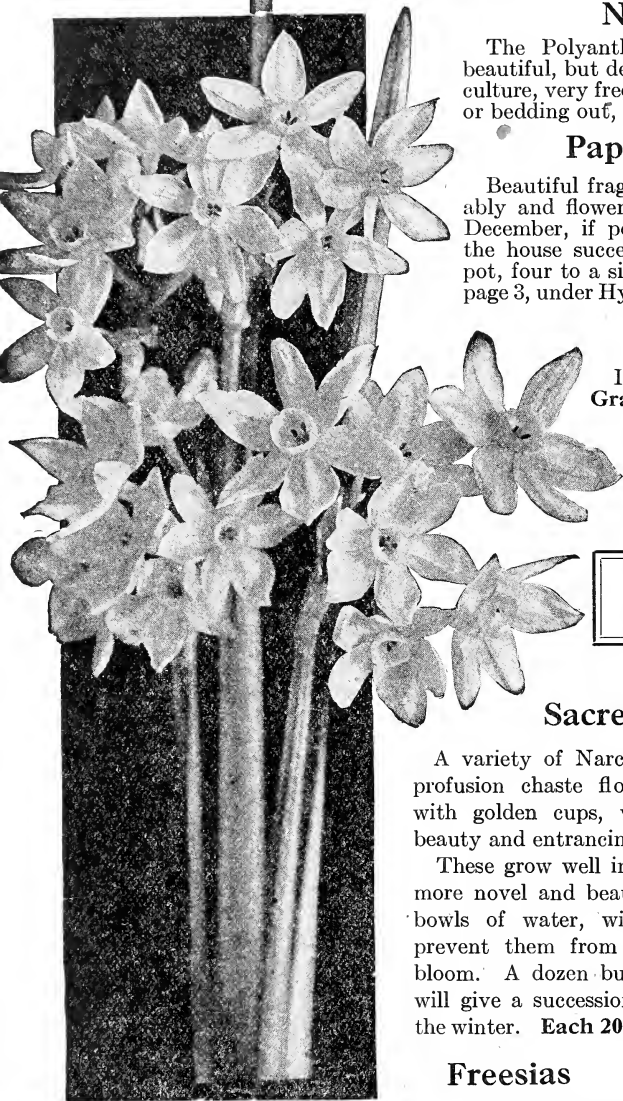
A species distinguished by rush like leaves. Easily grown in the house or open ground.

**JONQUIL CAMPERNELLE RUGULOSUS—**Improved giant, beautiful rich yellow.

**JONQUIL CAMPERNELLE RUGULOSUS PLENUS—**Double yellow flowers of great beauty. Each 7c; doz. 70c; 100 \$5.00

**NARCISSUS**  
**"Paper-White"**  
**GRANDIFLORA**

For Growing in  
 Pots or Glasses



## EARLY FLOWERING BULBS

### FOR INDOOR PLANTING

**T**HE EARLY FLOWERING BULBS for indoor planting will give the first winter flowers and can be had in succession from early winter until spring. They are of easy culture, sure to bloom, and should be in every home and school room.

### Narcissi—*Polyanthus*

The Polyanthus varieties of Narcissi are not only beautiful, but deliciously sweet-scented, and of the easiest culture, very free flowering and suitable for forcing indoors or bedding out, continuing long in bloom

### Paper White—*Grandiflora*

Beautiful fragrant flowers of pure white; forces admirably and flowers freely in dense clusters; will bloom in December, if potted early. Anyone can grow them in the house successfully. Plant one bulb to a three-inch pot, four to a six-inch pot. Can be grown in water. See page 3, under Hyacinths. **Ea. 10c; doz. \$1.00; 100 \$7.50**

### Polyanthus Varieties

Include the choice named varieties such as **Grand Monarch**, white; **Soleil D'Or**, yellow; **The Pearl**, **Gloriosa**, etc., and are suitable for open ground or pot culture.

They can also be grown in water the same as the "Paper White."

**Each 10c; doz. \$1.10; 100 \$8.00**

Postage prepaid in U. S. only. Canada, Alaska and outside points extra

### Sacred Chinese Lily

A variety of Narcissus, bearing in lavish profusion chaste flowers of silvery white with golden cups, which are of exquisite beauty and entrancing perfume.

These grow well in pots of earth, but are more novel and beautiful grown in shallow bowls of water, with enough pebbles to prevent them from tipping over when in bloom. A dozen bulbs started at intervals will give a succession of flowers throughout the winter. **Each 20c; doz. \$2.00, postpaid**

### Freesias

These popular winter blooming bulbs force readily, and by successive plantings will last throughout the season. Their handsome clusters of white flowers have a most delicious fragrance. Plant four to six in a 4-inch pot.

**PURITY**—New Giant Freesia—Pure white.

**Doz. 50c; 100 \$3.00**

Colored, lavender, yellow, rainbow and pink.

**Doz. \$1.00**

Our connection with the most successful and reliable growers of Freesia enables us to supply our patrons with the choicest grades both in size and quality possible to produce and at prices no higher than for the average commercial grades.



*China Lily*

**FOR GROWING NARCISSUS AND HYACINTHS IN GLASSES SEE PAGES 3 AND 8**

**BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG**

## CROCUS

A desirable effect is produced by setting Crocuses here and there over the lawn. It is only necessary to lift the turf and insert the bulbs about two inches deep. They bloom very early, dying down to the bulb in ample time to be entirely out of the way of the lawn mower. Once planted, they will remain uninjured in the ground and bloom for years.

Plant from October to March, about three inches deep and about two inches apart in beds or borders. Indoor, the Crocus can be easily forced. Plant from six to a dozen bulbs in a shallow pot, keep cool and water well, treating same as Hyacinths.

**PRICE, except as noted:** ..... doz. 35c; 100 \$2.00

**BARON BRUNOW**—Bright purple, free bloomer, flowers large, extra fine.

**MONT BLANC**—Large, pure white; one of the finest.

**KING OF THE WHITES**—Mammoth snow white, truly the king of all white Crocus.

**MAMMOTH YELLOW**—Yellow, selected bulbs of large size; finest blooms. Per doz. 50c; 100 \$3.00

**LOTHAIR**—White with blue stripes, very beautiful and distinctive.

First size, doz. 40c; 100 \$2.50

**SIR WALTER SCOTT**—White, striped with purple, the best striped, very large.

**PURPUREA GRANDIFLORA**—Bright purple, large, fine flower.

Price, doz. 50c; 100 \$3.00

Separate colors in mixed shades are extensively planted for outdoor beds or borders.

**ASSORTED**—Blue, striped, white or yellow. Doz. 30c; 100 \$2.00. **MIXED**—All colors. Per 100 \$1.50

## CALLA LILIES

**CALLA AETHIOPICA**—White Calla has few equals as a pot plant, and is easily grown. Plant one bulb to 6-inch pot, giving an abundance of water, light and heat.

**First Size Bulbs.**

Each 15c; doz. \$1.50

**Extra Size Bulbs.**

Each 20c; doz. \$2.00

**GODFREY CALLA**—Beautiful snowy white flowers borne continuously in great profusion. The "Godfrey" is a little smaller than the Aethiopica but makes a more luxuriant growth and is specially useful to florists on account of the great number of flowers it will cut. This also makes it a great favorite as a house plant.

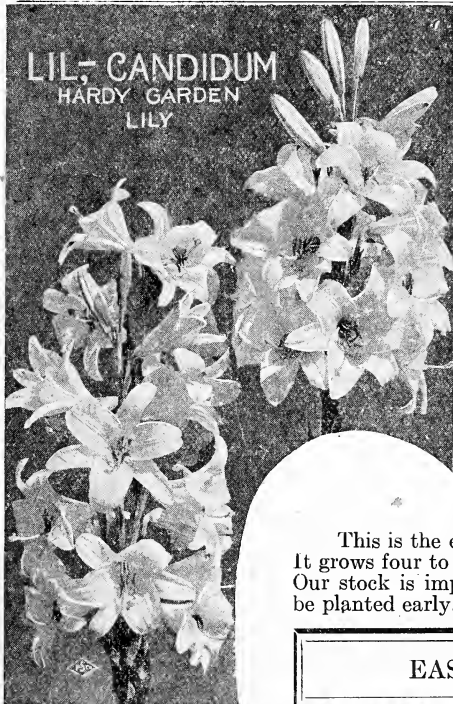
Each 25c; doz. \$2.50

**YELLOW CALLA**—(Elliotiana)—Flowers are a deep rich golden yellow and lasting. Foliage is a beautiful deep green, spotted silvery white. Treat same as White Calla.

Each 35c; doz. \$3.75



**LIL. CANDIDUM**  
HARDY GARDEN  
LILY



## LILY OF THE VALLEY

### Extra Select Pips

One of the most satisfactory and charming Spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant white flowers. Valleys thrive in any common soil, are perfectly hardy, and will succeed in shady situation. They can be left undisturbed in the open ground, where they will increase from year to year, and are most charming in beds or borders around the lawn. For outdoor planting and Winter forcing, pips are ready December to March.

**SELECTED PIPS**, for forcing indoors or planting outside. Doz. 75c; 100 \$5.00

**SELECTED CLUMPS**, for outdoor growing. Each 25c;

### Lilium Candidum

This is the ever popular, fragrant snow white, hardy garden Lily. It grows four to five feet high and blooms in the open ground in June. Our stock is imported from the Azores, the finest obtainable; should be planted early. Each 30c; doz. \$3.00

EASTER SUNDAY, APRIL 16, 1922

## LILIES—JAPAN



Lilies planted outdoors during the fall or early spring flower each year from June to October.

After bulbs are set out they should remain undisturbed for five or six years. They will increase in size, beauty and number of flowers, with practically no attention, our coast climate being perfectly suited to their requirements, and once established, they rival the famous product of Japan.

**LILIUM LONGIFLORUM—Giganteum**—Of grand size and substance; superior to the Multiflorum, but forces a little later; especially fine for open ground.

Plant in early December for Easter blooming. Choice bulbs, each 30c; doz. \$3.25, postpaid; extra choice bulbs, each 40c; doz. \$4.00, postpaid.

### LILIUM SPECIOSUM

No words can overstate the brilliant beauty of this charming class. Its six broad white, or pink petals thickly dotted with rose or carmine spots, and the graceful form, brilliant color and exquisite fragrance make this one of the most effective and desirable of the Lily family. They are profuse bloomers and last for days after being cut and put in water.

**SPECIOSUM RUBRUM**—White with dark rose spots. The most popular of the speciosum varieties. A hardy, vigorous grower and free bloomer.

Large bulbs..... Each, 30c; doz. \$3.00

**SPECIOSUM ALBUM**—Pure white, flowers freely.

Large bulbs..... Each, 35c; doz. \$3.50

### TIGER LILIES

**TIGRINUM SPLENDENS** (Improved Single Tiger Lily)—Has very large flowers of excellent form, color orange-salmon, with dark spots; hardy and a free bloomer.

Large bulbs..... Each, 20c; doz. \$2.00

**WASHINGTONIANUM**—(Mt. Hood Lily)—A beautiful Lily, native of Oregon; flower large, of open form, white, tinted with lilac, grows 3 to 5 feet high; very fragrant.

Choice bulbs..... Each, 20c; doz. \$2.00

### LILIUM AURATUM (Golden Banded Lily)

The handsomest and best known of the Japan Lilies. Its immense ivory-white flowers are thickly studded with yellow and crimson spots, while in the center of each petal is a gold band fading at its edges into white; very fragrant. They bloom from June to October.

Large bulbs..... Each, 25c; doz. \$2.75

### LILIUM FORMOSUM

**LILIUM FORMOSUM** is the best of the Longiflorums being early free blooming, healthy and vigorous, but for best results should not be planted earlier than November for Easter blooming. As too early planting produces a tendency to irregular growth and poor flowers. But if handled right, later plantings produce uniform thrifty plants of a desirable height that flower freely. Our stock is of the best quality obtainable and is ready for delivery in August.

Mammoth bulbs..... Each, 35c; doz. \$3.50

Large bulbs..... Each, 30c; doz. 3.00

**BEGONIAS**—(Tuberous Rooted)—From their early first blooming until cut down by frost, Tuberous Begonias display a mass of most gorgeous and brilliant coloring. They are distinct and unique, in wonderful shades of yellow bronze, white, reds, pinks, with thick waxy petals and grand ornamental foliage, never failing to excite the wonder and admiration of all who see them.

**Double, Single, Frilled and Crested.**

Each, 20c; doz. \$2.00

See ANNUAL CATALOG 1922 for Dahlias, Gladioli and other bulbs for spring planting not listed herein. Catalog on application.

## IRIS

**I**RIS are of such easy culture and rare beauty that everyone should grow them. They make a magnificent display either in clumps or border, blooming profusely and increasing rapidly and are perfectly handy in the open ground, preferring a moist situation. Plant Fall or early Spring.

Varieties listed below, the best collection to be had in the Northwest.

### Japanese Iris (Iris Kaempferi)

Japanese Iris are unsurpassed for their brilliant and varied colorings, producing effects that are truly marvelous. Blossoms early summer. Plant three inches deep, about 4 inches apart; divide the clumps every two years. Fertilize established beds while dormant, using stable manure, but do not apply after growth starts. Doubles have six petals, singles three.

**APOLLO**—Single. Very large. Pure white, pink center.

**DISTINCTION**—Light lavender pink, bright yellow blotches at base of petals. Distinct and fine.

**GEKKA-NO-NAMI**—Pure white.

**GOLD BOUND**—Pure white, with yellow throat.

**ONDINE**—White shaded light blue towards center. Very large, nine to ten inches.

**PURPLE AND GOLD**—Ten-inch flowers; rich violet purple, with golden throat and opal rays.

**TOLEDO**—White, light purple center.

**UCHIU**—Beautiful Caerulean Blue, with white rays. The longest season and one of the best.

**VENUS**—Pure white.

**PRICES:** Strong roots, each 35c; per dozen \$3.75, F. O. B. Portland; if mailed, postage extra except as noted above.

### Hardy Iris

Hardy Iris is one of the best of the early spring flowers, is hardy everywhere, and if planted in a moist situation or watered freely, will produce magnificent orchid-like blooms of great size and delightful fragrance. Comes in charming color effects in blues, browns, yellows, purples, white.

**AUREA**—Rich chrome-yellow. The finest pure yellow.

**FLAVESCENS**—Delicate shade of soft yellow; prolific bloomer. Very good for borders. Height 30 inches.

**FLORENTINA ALBA**—An excellent variety for cutting and an early bloomer. Flowers ivory white tinged with lilac. The Orris Root variety of commerce.

**HER MAJESTY**—A rich dark bronze color of great beauty.

**INGEBORG**—Pure white; very large flower.

**LOHENGRIN**—Beautiful Cattleysa rose, a large graceful flower.

**PRICES:** Except as noted, Strong Roots, each 25c; per dozen \$2.50 F.O.B. Portland; if mailed, postage extra

### Spanish Iris

These beautiful flowers, with their dainty shape, long stems and charming colors, are becoming more popular each year for forcing. They are largely planted outdoors, as well.

**ALEX VON HUMBOLDT**—Light Blue.

**Belle Chinoise**—Earliest golden yellow.

**DARLING**—Deep azure blue.

**PRICES:** Each 10c; doz. \$1.00



### Double Varieties

**AZURE**—Immense flower exquisitely wavy, mauve blue with darker halo surrounding the yellow blotch at base of petals. Very large and fine.

**KUMO-NO-OBI**—Very double; clear purple with white halo and golden throat.

**MAHOGANY**—Double. Dark red, shaded maroon.

**MT. HOOD**—Double. Light blue, shaded darker, bright orange center.

**DOUBLE AND SINGLE MIXED**—All colors and shades. Each 15c; doz. \$1.60; 100 \$12.00

**MADAM CHEREAU**—Large white, dainty frilled blue edge.

**PALLIDA DALMATICA**—Extra large, lovely true lavender, delightful fragrance, free flowering, fine for massing or as a cut flower.

**PRES. THIERS**—Mauve. Base striped brown and white.

**QUEEN OF MAY**—This is very satisfactory and well adapted everywhere. It is a soft rosy lilac, almost pink.

**WALHALLA**—Lavender; wine red.

All Colors Mixed, each 15c; doz. \$1.50

# PERENNIAL BORDER AND BEDDING PLANTS

**W**E offer well-rooted specimens that can be safely packed and promptly delivered in perfect condition. If you contemplate large plantings or special effects, let us know your plans and requirements. We can supply in any quantity for every requirement at lowest prices.

By proper arrangement cut flowers and a grand garden display can be obtained throughout the season. The great advantage in planting perennials is their permanency and the fact that they require so little care.

**PLANTS, Each 25c; doz. \$2.50, F. O. B. Portland; if mailed postage extra.**

**ACANTHUS**—(Bears Breech)—Very ornamental, having a tropical appearance. The foliage being attractive, the leaves about 2 feet long and the rose colored flower spikes 3 feet high, appear in August and September.

**ACHILIEA**—(The Pearl)—Pure white flowers, 2 feet high.

**ACONITUM**—(Monkshood or Helmet Flower)—*Wilsoni*—Large dark blue flowers, 4 feet high, invaluable for semi-shady places.

**ANCHUSIA ITALICA**—Tall growing hardy plant, with pretty blue flowers in large racemes.

**ANEMONE JAPONICA**—Beautiful Fall blooming plants. Rose or white.

**ANTIRRHINUM**—(Mixed).

**AQUILEGIA HYBRIDA**—(Columbine)—An old favorite for Spring and early Summer. Blue violet, pink. Fine for cut flowers.

**ARTICHOKE**—Ornamental garden plant, bearing edible buds that develop into giant thistle-like blooms.

**ASTERS, HARDY FALL-FLOWERING**—(Michaelmas Daisies, or Starworts)—These are among the showiest of our late-flowering hardy plants, giving a wealth of bloom during September and October, a season when most other hardy flowers are past, and for the best effect should be planted in masses of one color. They grow freely in any soil. The collection offered is made up of the choicest varieties only, the weedy sorts being eliminated. The colors are dainty blues, shades of red, pink and white.

**ASTILBE ARENDSI**—The plants are of very vigorous growth,  $2\frac{1}{2}$  to  $3\frac{1}{2}$  feet high, producing many-branched feathered heads of flowers in June and July. They prefer a half-shady, moist position in any ordinary garden soil.

*Salmon Queen*—Graceful panicles of a beautiful salmon pink.

**BLEEDING HEART, OR SEAL FLOWER**—An old-fashioned favorite; its long racemes of graceful heart-shaped flowers are always attractive, Each..... **\$0.75**

**BOCCONIA**—(Plume Poppy, or Tree Celandine)—*Cordata*—A noble, hardy perennial, beautiful in foliage and flower, admirably adapted for planting in the shrubby borders, centre of beds and in bold groups in almost any position. It will grow in any soil or situation, attaining from 6 to 8 feet in height; flowers in terminal panicles, of a creamy-white color during July and August.

**CANTERBURY BELLS**—Pink, white, blue, large clumps.

**CENTAUREA**—(Hardheads or Knapweed)—Of easy culture, delighting in an open, sunny position, producing a wealth of bloom, which not only makes a fine display in the border, but is excellent for cutting.

*Dealbata*—Distinct bright rose-colored flowers; July to September; 18 inches.

*Macrocephala*—Large thistle-like golden-yellow flowers; useful for cutting and showy in the border; July and August;  $3\frac{1}{2}$  feet.

*Montana*—(Perennial Corn Flower)—Grows 2 feet high, bearing large violet-blue flowers from July to September.

*Alba*—Large white variety of the above.

**COREOPSIS**—(Golden Sunbeams)—Beautiful golden-yellow; fine for cutting.

**DAISIES GIANT**—Pink and white.

**DIANTHUS**—(Hardy Pink).

**DORONICUM**—Early Spring Marguerite-like yellow flowers. Fine border plant.

**ECHINOPS**—(Globe Thistle) *Ritro*—Thistle-like plant with globular heads of deep metallic blue flowers, which can be dried. Flowers in August; 2 to 3 feet.

**ENGLISH PRIMROSE**—Finest sorts, from pure yellow to deepest crimson-maroon; early low-growing, fragrant.

**FOX GLOVE**—(*Digitalis*) Tall Gloxiana Flowered. Mixed.

**GAILLARDIA**—(Blanket Flower)—*Grandiflora Maxima*.—Combination coloring of yellow, brown, crimson, orange; height, 2 feet; bloom until frost; fine for cut flowers.

**GEUM**—(Atrocium)—A splendid bed or border plant—18 to 24 inches—bearing freely dainty, little double red flowers.

**GYPSOPHILA**—(Baby Breath)—*Paniculata*—Single and double; thrives during driest weather; elegant rock plants and very useful for cut flowers.

**HELENIUM**—(Sun-bridge or Sneezewort)—very desirable border plant, broad-spreading heads of flowers, useful for cutting. Red, yellow, brown.

**HELIANTHUS**—(Hardy Sunflower)—Effective hardy plants for large borders and planting among shrubbery. July to August.

*Multiflorus Maxima*—Golden-yellow flowers, **HEUCHERA SANGUINEA**—Dainty alpine plant requiring shade of a rockery or fernery. The bell-shaped coral red flowers are borne on wiry stems about 18 inches.



## Hardy Perennial Garden Plants—(Continued)

**HELIOPSIS**—(Orange Sunflower)—July and August. Similar to *Helianthus* but earlier. Dwarf habit, fine for cut flowers.

**Pitcheriana**—Beautiful deep golden yellow flowers about 2 inches in diameter.

**HOLLYHOCKS**—Good soil required, work in well rotted manure; water during dry weather. **New Double and Single**—Red, yellow, pink, and white.

**Large clumps.**

**MYOSOTIS**—(For-get-me-not)—*Dissitiflora*—Little blue star-like flowers. Useful for borders and half shady places.

**PENTSTEMON**—(Beard Tongue) *Hybridum*—Large *Gloxinia*-like flowers, in all colors from white to deep crimson, 2 to 3 feet high.

**PHYSOTEGIA**—(False Dragon-Head)—One of the most beautiful of our midsummer flowering perennials, forming dense bushes 4 to 6 feet high, bearing spikes of delicate tubular flowers not unlike a gigantic heather.

*Virginica*—Bright but soft pink.

**PYRETHRUM**—(Persian Daisy)—Of easy culture in any garden soil where there is good drainage and full exposure to the sun. They prefer to be undisturbed for 2 or 3 years, bloom in June—*Hybridum*.

**RUDBECKIA**—(Golden Glow)—Bears in profusion immense double blooms of the brightest golden yellow; hardy everywhere.

**SCABIOSA** *Causasica* (Blue Bonnet)—Handsome border plant. A soft shade of lavender, blooms June to September. Stems 18 to 24 in.

**SOLIDAGO**—(Golden Rod)—The varieties offered below are the most desirable of our native Golden Rods.

*Canadensis*—Grows 4 to 5 feet high, with spikes of golden-yellow flowers from the end of July until September.

**SHASTA DAISY**—(Alaska). Immense, fluffy white blooms, with golden eyes, from July to late Fall; fine for cutting; splendid border plants.

**STOKESIA**—(Cornflower Aster) *Cyana*—Handsome lavender blue cornflower-like blossoms which measure from 4 to 5 inches across. Desirable as a single plant or grown in beds 18 to 24 inches high, June to September.

**SWEET WILLIAM**—Old favorites for beds and borders, assorted colors.  
*Newport Pink*.

**VALERIANA**—(Garden Heliotrope)—Decorative plant for the rockery, with strong heliotrope odor.

*Officinalis*—Rose tinted white flowers during June and July.

*Coccinea Rubra*—Rose-pink flowers; blooms in May; 2 feet high.

*Cocina floralba*—Pure white flower tufts.

**WALLFLOWER**—Dark and light; single and double; mixed; good subjects for rock garden and spring bedding.

**WATER LILIES**—*Nymphae*—Hardy, white  
Single roots 35c each; large roots 75c to \$1.50 postpaid.

## Larkspur—Delphiniums

**HARDY LARKSPUR**—One of the most beautiful and useful border plants; vigorous, free-blooming and hardy. The varieties we can supply are among the best.

**Mixed Varieties**—Each, 20c; doz. \$2.00. If mailed, postage extra.

## Perennial Rock Garden Plants

Make one in your Home Garden and see how easy it is to grow these most wonderful plants. no flower garden is complete without one.

Let us help you plant one. It should be borne in mind that it is not for the purpose of displaying a collection of curious rocks, but for the growing of plants that will not grow elsewhere.

In selecting rocks, select those not freshly broken, but rather those having a growth of Lichens for sunny places and Moss for shady places. A downward direction of the rock is best but not necessary. Make your rock garden as simple as possible.

We have many rare rock plants, which are not listed owing to shortage at present.

Those plants marked with a star (\*) can be grown outside of rock work as well.

**PLANTS:** Each 25c; doz. \$2.50; F. O. B. Portland; if mailed postage extra.

**ALYSSUM SAXATILE COMPACTUM**—Bright yellow corymbs; showy Spring flower- ing plant—also flowers in Autumn.

**AUBRETIA**—Pretty dwarf growing rock plants, silvery-green foliage and sheets of flowers in early spring and summer.

*Bougainvillei*—Purple.

\***ARABIS**—((Rock Cress)—Very early spring flowering plants especially adapted for edging and borders. Pure white flowers.

*Alpina Grandiflora*—Single.

*Alpina Flore Pleno*—Double.

**ARENARIA**—(Sand Wort)—These plants do best in sand and cool shady places in the rocks.

# PERENNIAL BORDER AND BEDDING PLANTS

**W**E offer well-rooted specimens that can be safely packed and promptly delivered in perfect condition. If you contemplate large plantings or special effects, let us know your plans and requirements. We can supply in any quantity for every requirement at lowest prices.

By proper arrangement cut flowers and a grand garden display can be obtained throughout the season. The great advantage in planting perennials is their permanency and the fact that they require so little care.

**PLANTS, Each 25c; doz. \$2.50, F. O. B. Portland; if mailed postage extra.**

**ACANTHUS**—(Bears Breech)—Very ornamental, having a tropical appearance. The foliage being attractive, the leaves about 2 feet long and the rose colored flower spikes 3 feet high, appear in August and September.

**ACHILIEA**—(The Pearl)—Pure white flowers, 2 feet high.

**ACONITUM**—(Monkshood or Helmet Flower)—*Wilsoni*—Large dark blue flowers, 4 feet high, invaluable for semi-shady places.

**ANCHUSIA ITALICA**—Tall growing hardy plant, with pretty blue flowers in large racemes.

**ANEMONE JAPONICA**—Beautiful Fall blooming plants. Rose or white.

**ANTIRRHINUM**—(Mixed).

**AQUILEGIA HYBRIDA**—(Columbine)—An old favorite for Spring and early Summer. Blue violet, pink. Fine for cut flowers.

**ARTICHOKE**—Ornamental garden plant, bearing edible buds that develop into giant thistle-like blooms.

**ASTERS, HARDY FALL-FLOWERING**—(Michaelmas Daisies, or Starworts)—These are among the showiest of our late-flowering hardy plants, giving a wealth of bloom during September and October, a season when most other hardy flowers are past, and for the best effect should be planted in masses of one color. They grow freely in any soil. The collection offered is made up of the choicest varieties only, the weedy sorts being eliminated. The colors are dainty blues, shades of red, pink and white.

**ASTILBE ARENDSI**—The plants are of very vigorous growth, 2½ to 3½ feet high, producing many-branched feathered heads of flowers in June and July. They prefer a half-shady, moist position in any ordinary garden soil.

*Salmon Queen*—Graceful panicles of a beautiful salmon pink.

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## Hardy Perennial Rock Plants—(Continued)

\***ARMERIA**—(Sea Pink or Thrift)—Attractive dwarf plants that will succeed in any soil, forming evergreen tufts of bright green foliage, from which innumerable flowers appear in dense heads, on stiff wiry stems, from 9 to 12 inches high.

**Lauchena Rosea**—Bright rose.

**BALERICA**—A creeping plant with dark green foliage and a white blossom.

**BELL FLOWERS**—(English Harebell)—A very attractive plant with bell shaped flowers.

\***DIANTHUS**—(Maiden Pink)—A beautiful plant with narrow leaves and crimson flowers.

\***HEUCHERA SANGUINEA**—Dainty alpine plant requiring shade of a rockery or fernery. The bell-shaped coral red flowers are borne on wiry stems about 18 inches.

\***ICELAND POPPY**—(Sunbeam)—A new race of Iceland Poppies, long stems, large flowers, bright colors.

**PHLOX SUBULATA**—(Moss or Mt. Pink)—Early spring flowering; useful for carpet bedding; cemetery planting or rockeries.

**SAXIFRAGA**—(Megasea)—These will thrive in any kind of soil and in any position; grow about one foot high, and are admirable for the front of the border or shrubbery, forming masses of handsome, broad, deep green foliage

which alone renders them useful, while the pretty flowers, which appear very early in the spring, some almost as soon as the frost is out of the ground, make them doubly effective.

**SEDUM**—(Stone Crop)—One of the most widely known rock plants and the easiest to grow.

**Album**—Green foliage, small white flowers.

**Auglicum**—Pink feathery blossom.

**Hydium**—Pink blossom.

**Loggere**—Yellow blossom.

**Mallstrasium**—Yellow blossom.

**Subaldis**—Pink flowers in September.

**Stahlie**—Crimson foliage in Autumn.

**STATICE**—(See Lavender)—Valuable for border or rockery, with tufts of leathery leaves and immense candelabra-like heads. They last for months when cut and dried. Bloom June to September.

**Incana**—White minute flowers.

**Latifolia**—Minute purplish blue flowers.

\***VIOLA**—(Violet)—**Cornuta G. Werring**, a true **Viola Cornuta**. Blue flowers. Gracilis **Olympian Violet**. Splendid for rock work.

**VERONICA REPENS**—(Creeping Speedwell)—Slender compact plant with blue flowers. Thrives in the sun where grass will not grow. Fine for rock work.

## Paeonies

### Double Herbaceous

The development and increase in popularity of the Paeony has been unparalleled among flowers, and the profusion and duration of bloom, combined with handsome, massive foliage, accommodating habit, and easy culture, render them one of the most popular hardy plants grown for lawn and garden decoration.

Paeonies are always free from disease and insects do not bother them. They are hardy, thrifty growers, bloom freely, and nothing will add more to the beauty and attractiveness of the lawn.

**ASA GRAY**—Very large. Semi-double. Pale to deep lilac. Midseason. Each \$1.25

**AVALANCHE**—Very large and full, milky white Strong grower, fragrant. Midseason. Ea. 75c

**COURONNE D'OR**—Superb white flower; immense size, reflects yellow, center petals, bordered carmine, fragrant, vigorous; late. Ea. 75c

**DELACHEI**—Large, full flower of a deep rich crimson, purplish tone; very fragrant; medium to late. Each 60c

**DELICATISSIMA**—Light rosy apricot, sometimes margined carmine red. Midseason. Each 75c

**DUKE OF WELLINGTON**—Very large sulphur white; fragrant. Each 60c

**EDULIS SUPERBA**—Rose pink, delightfully fragrant. An early bloomer, ready for Decoration Day. Each 60c

**FELIX GROSSE**—Full double, flaming red, good bloomer. Mid season Each 75c

**FESTIVA MAXIMA**—Immense double flowers, pure white tipped or flaked with a small crimson spot at center. Early Each 75c

**FLORAL TREASURE**—Large, very showy, pale lilac-rose, good for cutting. Mid season. Each 75c

**FRAGRANS**—Late color deep rose; fragrant prolific bloomer; tall grower. Each 60c

**FRANCOIS ORTEGAT**—Large, semi-rose. Dark amaranth-red, brilliant golden-yellow stamens intermingled with petals. Fragrant. Very striking and handsome. Medium height and habit. Midseason. Price 50c


**MAD. BREON**—Flowers outside flesh, center lemon, occasionally carmine tipped when first open; entire flower gradually changing to pure white. Early Each 75c

**MADAME CALOT**—Large rose type; pale Hydrangea pink; fragrant; early. Each \$1.00

**MAD. DE VERNEVILLE**—Broad outside petals, sulphur white, with center rosy white, sometimes edged carmine, and beautifully imbricated. Early. Each 75c

**ROSE QUEEN**—A fine rose pink that does not fade in the sun. A very desirable flower at a low price. Each 35c

**QUEEN VICTORIA**—The very best everyday white. When cut a first-rate keeper. Flowers of good substance and color; very pretty in the bud state, when it has a faint blush tint; an old standby. Each 50c

 Varieties not listed in our choice collection can be supplied to your order.

**OREGON GIANT PANSIES**—Our Giant Plants can not be compared to any other Giant Pansies. By mail 75c doz.

**OREGON GIANT PANSY SEED**—We offer a limited amount of this hand selected seed, Per pkt. 25c; large trade pkt. \$1.00

## PERENNIAL PHLOX

**H**ARDY everywhere. The marvelous new colors, beautiful foliage and easy culture make this choice flower one of the most desirable for beds, borders or lawn groups where permanent effects are desired. Each 25c; doz. \$2.50; if mailed, postage extra.

**ATHIS**—Tall magnificent salmon pink, free and continuous bloomer.

**CHAMPS ELYSEES**—Rich purplish crimson; fine for massing.

**DAYBREAK**—New. Pale pink.

**ECLAIREUR**—Carmine-purple.

**ELIZABETH CAMPBELL**—Medium height; bright salmon-pink with lighter shading and dark crimson eye.

**\*ETNA**—Orange-scarlet.

**EUGENE DANZANVILLIERS**—Lilac and white.

**EUROPA**—Medium; immense trusses of pure white with distinct crimson eye.

**HANNY PFEIDERER**—Cream color changing to salmon in the center, carmine-red eye. Very fine.

**IRIS**—Violet-blue flowers.

**MATADOR**—Orange-red, cherry center.

**MME. PAUL DUTRIE**—New. Lilac-rose.

**MRS. E. E. JENKINS**—Pure white, enormous truss; very fine flower and free bloomer.

**MME. PAUL DUTRIE**—Tall; delicate lilac rose reminding one of beautiful soft pink Orchids.

**PROFESSOR SCHLIEMANN**—Currant-red, with a bright crimson eye.

**R. P. STRUTHERS**—Tall, rosy carmine, with claret-red eye; fine.

**SELMA**—Tall; large flower; pale rose mauve with claret eye.

**VON LASSBURG**—Medium; one of the largest flowered purest whites in cultivation.



**OTHER VARIETIES**—We can quickly supply submit us your wants.

## Sweet Violets

Single

Price each 20c; 6 sorts, \$1.00, Postpaid.

Double.

**BARONESS ROTHSCHILD**—Similar to Princess of Wales, but blooms more freely.

**CALIFORNIA**—Very showy flowers of enormous size, deep violet blue; deliciously fragrant

**PRINCESS OF WALES**—Gigantic flowers, of a very rich shade of blue, extremely fragrant.

**LADY HUME CAMPBELL**—Beautiful light blue, very free-blooming, exquisitely fragrant

**MARIE LOUISE**—A constant bloomer, producing large flowers, lovely deep violet purple

**SWANLEY WHITE**—The finest and best double white violet in cultivation.

## Oriental Poppy

The most brilliant and gorgeous of all garden plants; is hardy and succeeds well in any good garden soil, blooming in May and June, they are dormant thereafter until cool weather. We offer two rare and beautiful new sorts, besides the standard red type and hybrids. Each, 25c; doz. \$2.50

**ORIENTAL POPPY**—Red. The old time favorite.

**PERRY'S WHITE**—A splendid novelty of the greatest merit. Pure satiny white with brilliant crimson marking at base of petals.

**SALMON QUEEN**—Rich salmon-pink with coppery orange suffusion; deepest purplish black center and markings. A rare and splendid flower of largest size; vigorous and free blooming.

**PLANT more PERENNIAL FLOWERS NOW, for THE WORLDS FAIR, PORTLAND, 1925.**

**Items on this page are F. O. B. Portland. If mailed, postage extra, unless otherwise stated.**

**BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG.**



**W**E offer a splendid list of Ferns, including some of the newest varieties as well as the older sorts. Florists wishing stock of the new varieties write for prices.

## ORNAMENTAL FERNS

Price small plants, 30c; postpaid, from 4 in. pots, 75c; 5 in. \$1.50, postpaid.

Specimen plants, \$1.50 to \$3.00, F. O. B. Portland.

**N. AMERPOHLII**—"Lace Fern," beautiful and attractive "sport" from the Boston Fern. Is finely "crested," has fluffly lace-like appearance.

**BOSTON FERN**—This is the original and well known type of "Sword Fern."

**TEDDY JUNIOR**—New Dwarf Fern. A sport from the famous Roosevelt Fern. Compact in form, and a rapid grower, producing about four times as many fronds as any other fern.

**N. ROOSEVELT**—Resembles Boston Fern, produces more fronds, making a bushier plant.

**SCOTT FERN**—(*Nephrolepis Scottii*)—Identical with the original Boston type, but is dwarfed with a more compact and bushy habit of growth.

**OSTRICH PLUME FERN**—(*Nephrolepis Whitmani*)—Beautiful new sport from the well known Boston Fern.

## ASPARAGUS FERNS

**SPRENGERI**—(Emerald Feather)—This is undoubtedly one of the handsomest and most valuable evergreen trailing plants for the house and conservatory ever introduced. It is especially valuable for pots, vases, baskets, etc., covering all with its beautiful sprays of lovely green feathery foliage, which can be cut freely and are very useful for bouquets, wreaths and all kinds of floral decorations. It makes a charming ornamental plant for the window or conservatory in Winter, and is equally valuable for vases, baskets, porch boxes in Summer. 20 cents each, postpaid; large plants by express, 35 and 50 cents each.

**PLUMOSA**—(Japanese Lace Fern)—A finer and more delicate plant than the Sprengerii, but hardy and easily grown. An extremely graceful window climber, bright green feathery foliage, as fine as the finest silk or lace. The fronds retain their freshness for weeks when cut, and are greatly admired for floral decoration. Most popular of all house plants at present time. Florists grow entire greenhouses of it for its cut strings and fronds. No finer house plant than this. 20 cents each, postpaid; large plants, by express, 50 and 75 cents each.

## SPECIAL—Six Fine Table Ferns for \$1.25

Price 25c each; 6 sorts for \$1.25. Extra large plants, 40c each, postpaid.

**ADIANTUM CUNEATUM**—Maiden Hair Fern. A very beautiful and graceful fern.

**ASPIDIUM TSUSSIMENSE**—Valuable for fern dishes; of dwarf graceful habit.

**PTERIS ARGYREA**—(The Silver Fern)—Beautiful variegated leaves; silvery white on a light green ground.

**CYRTOMIUM FALCATUM**—(The Holly leaved fern)—Hardy, dark green foliage.

**PTERIS CRETICA ALBO-LINEATA**—A pretty and useful variegated variety.

**PTERIS WILSONI**—A very pretty and useful fern. Green leaves with the ends very peculiarly crested. Beautiful sort for fern dishes.

## PRIMROSES

**PRIMROSES, NEW GIANT OBCONICA**—

A lovely perpetual blooming primrose. The crisp green leaves spring up luxuriantly amid which appear, all season through, stout little stalks, each surmounted by a pretty cluster of lavender-pink flowers several inches across. One of the finest winter blooming house plants for a cool room.

Price 25 cents each. Larger plants, 40 and 60 cents each, postpaid.

**PRIMROSES, CHINESE FRINGED**—These

are easily grown in a cool room, delighting in a light sandy soil. The flowers are fringed, of fine size, produced in trusses well above the fresh lively green foliage which of itself is very handsome. Can be supplied in three colors, red, pink, white.

Price, 25 cents each. Larger plants, 40 and 50 cents each. Postpaid.

## PALMS AND ORNAMENTAL PLANTS

**B**ALMS lend their surroundings an atmosphere of elegance and completeness, and with proper care will thrive in any home, making the most magnificent and useful decorative plants.

**CARE OF PALMS**—Good garden loam, with a little sharp sand, is the best soil for palms, and good drainage is of first importance—do not keep a palm too wet. If you set the pot in a jardiniere put something under the pot to let the water drain through. Never let the water stand around the bottom of the pot. Water thoroughly, but let it drain off, then when the soil begins to look dry give another good wetting. It is important to keep the soil of any pot plant moist—clear through—but not wet like mud. One other important point: Soil must have light; palms and some plants would do well without strong light, but the soil would soon sour and fail to nourish them, therefore, when not actually in use keep them as near the windows as possible, but not in the hot sun.

Bone meal is the best fertilizer; a tablespoonful to a 7-inch pot is a good portion. Dig well into the soil. Apply when new growth shows. Do not repot as long as they are doing nicely. And when you do, transfer gently to the larger pot and fill the soil around the roots, disturbing them as little as possible. Palms do best in comparatively small pots. Shower them with water twice a week and should they show signs of scale, wash with strong soap and water or kerosene emulsion (a pound of soap melted with a half pint of kerosene thoroughly stirred into it.) Dilute this with ten parts of water and apply with a cloth or brush.

### Aspidistra

Ornamental foliage, plant throwing up shoots which unfold, developing into long, graceful leaves; color a beautiful dark glossy green; give same treatment as hardy palm.

**VARIEGATED**—Rich, creamy markings.

**\$2.50 up, postage extra**

**COCOS WEDDELIANA**—The most graceful of all Palms; finely cut foliage of rich deep green; we have fine plants of this most desirable Palm, well established in 4-inch pots, 5 to 7 leaves.

**Each 75c, postage extra**

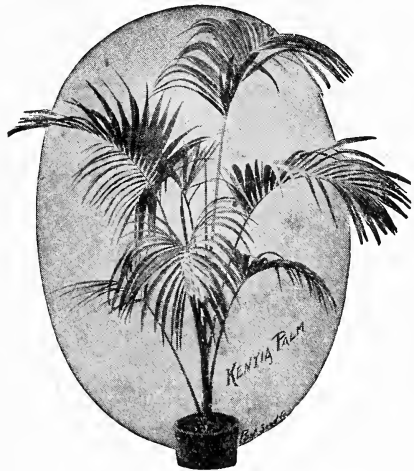
### Dracaenas

**D. INDIVISA**—This is the popular hardy Dracaena that is used so extensively for centers of vases, baskets, boxes, etc. Of graceful form, and stands full exposure to sun.

**4-inch pots 60c; 5-inch pots \$1.00, postage extra**

**KENTIA BELMOREANA**—A beautiful strong growing Palm with deep green, crisp foliage; inclined to dwarf and spreading habit; one of the most popular for house culture, as they are very hardy.

**Small plants, \$1.00. Large plants, 18 inches up, \$1.50 to \$5.00 and up. Postage extra.**



### Rubber Plant

**FICUS ELASTICA**—This is certainly one of the best plants grown for decorative purposes; it succeeds well with ordinary treatment. **Large plants, each, \$2.00 to \$3.00, postage extra**

### Umbrella Plant

**CYPERUS**—(Alternifolia)—A splendid house plant of easy culture; resembles a palm; requires little or no attention, and remains green throughout the year. Keep well watered.

**Plants, postpaid, each 25c to \$1.00**

**DIAMOND PLANT FOOD for Palms and Pot Plants.**

**½ pound package 35c; 1 pound 50c. Postpaid**

### WINTER-BLOOMING POT PLANTS

**PERSIAN CYCLAMEN, GIANT FLOWERED**—There is probably no more ornamental flowering plant for greenhouse or parlor culture than the Cyclamen. Circular fleshy leaves of a rich metallic green variously marked with silvery stripes. The flowers appear at the approach of cool weather and continue blooming throughout the winter. Colors, red, pink and white.

**Price, 25 cents each; larger plants, 50 cents each, postpaid.**

**GENISTA RACEMOSA**—Shower of Gold plant. Its pendant-shaped flowers literally smother the plant during the spring months, while at other times its graceful dark green foliage makes a very ornamental subject for home decoration. One of the easiest plants to grow.

**Each 40c; larger plants 75c**

# “DIAMOND” QUALITY ROSES

**D**IAMOND QUALITY ROSES are large, sturdy, two-year-old, “field-grown” roses that will give you splendid flowers the first season. They are true to name and our list includes the best of the well known popular varieties, the most meritorious of recent novelties and the Gold Medal roses of famous European growers.


## Planting and Care

In our favored section, roses attain a perfection seldom equaled, but you cannot expect them to thrive and bloom unless you care for them. We offer the following simple suggestions:

**SOIL**—Any good, well-drained garden soil, enriched with fertilizer, will give excellent results. If heavy clay soil mulch well with burnt earth and manure, rotted sod or leaf mold.

**FERTILIZER**—Our odorless fertilizer, Bone Meal, Tankage of Blood, will give excellent results and should always be applied after the plants start their growth.

**WATERING**—When setting out, water regularly until roots are well set; then about once a week unless the ground is very dry; in such cases more often. Do not get the foliage wet after a hot day. This causes mildew.

 We offer a splendid assortment of popular roses and the best of the new ones, and can secure any variety in commerce, **TRUE to NAME.**

## Rare New Garden and Exhibition Roses

**Fine 2-year Dormant Plants, not prepaid, \$1.25; \$12.00 per doz. unless otherwise priced**

**COLUMBIA**—(H. T.)—One of the greatest of last year's introductions. The color is a true pink, deepening as it opens to a glowing pink. A striking peculiarity of this rose is that the shades all deepen as the rose opens. Single buds on long stems, splendid for cutting.

**Each \$1.50**

**COUNTESS CLANWILLIAM**—(H. T.)—A distinct and charming rose, producing flowers in great abundance. Color delicate peach pink, petals flamed and edged with deep cherry red. Long pointed buds opening to large full flowers. Of strong, vigorous habit.

**CLEVELAND**—Vigorous stout branching growth with very large and handsome foliage absolutely mildew-proof. Flowers of the very largest size, very full and beautifully formed. Remarkable for its finely shaped buds unfolding into a massive bloom of great substance. Color a new shade of old rose heavily flushed reddish copper with base of petals deep coppery yellow. The buds display a distinct metallic sheen entirely new to roses and charming in its originality.

**TIPPERARY**—Beautifully formed buds of a bright canary yellow, produced with great freedom. A fine new Irish rose with all the requisites of a good garden and decorative variety.

**FINALLY**—Keep the surface well worked around the plants. This as necessary as water or fertilizer. When planting cut back freely, and the bush will recover quickly.

**SHIPPING**—We always send all our two-year-old rose bushes charges collect by express or freight, packing them so they will carry safely even though they should be on the road for two weeks or more.

If necessary, we can send small two-year-old bushes by mail at an additional cost to cover postage, but in such cases we always prune the tops and roots ready for planting.

**CONSTANCE**—Rich orange yellow, distinctly streaked and splashed with crimson, long pointed buds.

**GORGEOUS**—Strong, vigorous growing, with handsome olive-green foliage. Flowers very large, finely formed, produced freely on stout canes. Color deep orange-yellow, heavily veined with reddish copper.

**LOS ANGELES**—Described by the originator as “a flame pink toned with coral and shaded gold at base of petals.” Buds long, pointed and lasting. The flowers are very large and the beauty of coloring does not fade. Flowers profusely all season on strong shoots. The foliage is a rich, luxuriant glossy green. Two-year field-grown plants. Everyone should have Los Angeles.

**Each \$1.50**

**LADY HILLINGDON**—(T)—Deep apricot yellow, long and pointed bud. Flowers are of good substance and very lasting. Foliage luxuriant. A fine forcing or garden rose. excellent for cutting.

**RADIANCE RED**—(Red Radiance)—A glowing crimson sport of Radiance with all the magnificent qualities of the parent; the enormous globular flowers on heavy canes are a sight to be long remembered.



## BEAUTIFUL ROSES OF RECENT INTRODUCTION

*The following are the recent novelties and Gold Medal roses that have proven their merit and are now generally in great demand.*

**Fine 2-year Dormant Plants, not prepaid, \$1.00; \$10.00 per doz.**

**AUGUSTUSHARTMANN**—Brilliant geranium red flushed orange. Very large, well formed flowers with high pointed center. Prominent in all the English Rose Shows.

**CRIMSON EMBLEM**—A superb new Irish rose of a rich and glorious crimson color heavily shaded maroon. Buds and flowers of superb form, of fine size and produced on fine long stems, admirably adapted for cutting. Wonderful mildew-proof foliage.

**FRANZ DEEGAN**—(H. T.)—This beautiful yellow is a fine grower, having the good habit of throwing up numerous heavy canes.

**HOOSIER BEAUTY**—Crimson scarlet with darker shadings, velvety texture. Bud long and pointed, deliciously fragrant.

**KILLARNEY BRILLIANT**—A sport from the well known Killarney, a more robust grower, producing fine, large, nice formed buds of a deep rich rose color, lightened towards edge of petals. A fine garden rose.

**LILLIAN MOORE**—(H. T.)—Flowers large and full; pure Indian yellow with slightly deeper center. Buds long and pointed.

**LOUISE CATHERINE BRESLAU**—(H. T.)—Coral red, shaded chrome yellow, opening to a shrimp pink, shaded coppery orange.

**MAD. EDOUARD HERRIOTT**—The famous winner of the Daily Mail Prize. The color being terra cotta bronze and geranium red, a new combination of colors in rose.

**MADAME MELANIE SOUPERT**—(H. T.)—Splendid new orange yellow shaded pink; beautiful, long-pointed buds. Best of its color.

**MAD. RAVARY**—(H. T.)—Clear orange yellow. Long pointed buds; flowers of fine form.

**MARQUIS DE SINETY**—(H. T.)—Deep saffron yellow, flushed reddish copper. Flower large beautiful dark foliage.

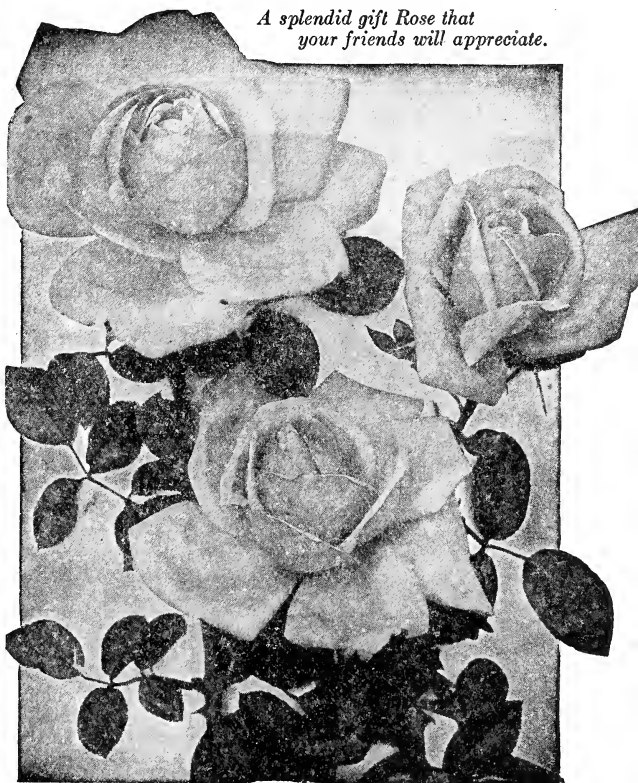
**MELODY**—(H. T.)—Intense deep saffron yellow with primrose edges. Blooms medium size, very fragrant and freely produced.

**MRS. AARON WARD**—(T.)—A deep golden orange color shading out to lemon or creamy yellow at the edge of the petals. One of the most beautiful roses in existence.

**MRS. ALFRED TATE**—(H. T.)—Coppery red shaded fawn. Buds are about the longest we have ever seen on an outdoor rose. Will easily rank with the very best.

**MRS. CHARLES RUSSELL**—(H. T.)—“American Beauty” can compete with it when it comes to counting points. Stems three feet long, stiff and surmounted by grand rosy-pink blooms.

*A splendid gift Rose that your friends will appreciate.*



*Los Angeles*

**OLD GOLD**—(H. T.)—Medium sized flowers of a vivid reddish orange color with coppery red and coppery apricot shadings. A splendid garden rose.

**OPHELIA**—(H. T.)—Orange salmon buds, opening to flowers of dainty pink. The foliage is clean, dark and leathery—growth vigorous and free, producing long canes. Blooms early and continuously.

**PERLE VON GODESBURG**—A seedling from the beautiful K. A. Victoria, having all the characteristics of that fine variety, but bearing creamy white flowers shaded to yellow in center.

**RAYON D'OR**—(Pern)—Long, pointed buds of deep orange-cadmium smeared claret opening to a rich sunflower yellow. Foliage is deep, glossy green; and free from mildew.

**RED LETTER DAY**—Brilliant glowing crimson scarlet, opening into medium-sized cactus-shaped flower of curious formation. One of the freest blooming roses extant.

**SUNBURST**—(H. T.)—The finest of all yellow roses with long pointed buds. Color a superb Cadmium yellow with orange yellow center. The foliage is a handsome bronze green.

# GRAND GARDEN ROSES

*In this list you will find many famous prize winners and some of the most beautiful and popular roses.*

**Two-year-old plants, not prepaid, 85c each; \$9.00 per doz.**



**ADMIRAL WARD**—(H. T.)—A fine bedding variety of vigorous growth and erect branching habit. Spherical blackish red bud opening to large, full, globular flowers of crimson red with shadings of fiery red and velvety purple.

**BETTY**—(H. T.)—Beautiful coppery rose color, overspread with golden yellow. Fragrant.

**BRITISH QUEEN**—(H. T.)—Pure white, large, full flowers, opening freely. One of the best white roses for bedding and cutting.

**EDWARD MAWLEY**—(H. T.)—Long pointed buds of deep, rich, velvety crimson. Growth is upright and branching with handsome foliage. One of the finest red roses.

**HARRY KIRK**—(H. T.)—Deep sulphur-yellow passing to a lighter shade at the edge of petals. Robust growth; free branching habit.

**H. V. MACHIN**—A splendid new exhibition rose in great demand by exhibitors at the English rose shows where it has made a name for itself because of its grand scarlet crimson flowers of such wonderful size and form. Splendid high built-up bloom of very intense coloring. Nothing finer in red roses.

**LADY ALICE STANLEY**—(H. T.)—Large, full flowers of lovely, deep coral, inside pale flesh. A free grower and a profuse bloomer.

**LADY ASHTOWN**—(H. T.)—One of the finest pinks of a rich, deep, silvery tone; flowers large.

**LADY BATTERSEA**—(H. T.)—Long, oval buds, sharply pointed; bright, cherry crimson

**LADY ROBERTS**—Rich apricot yellow, base of petals coppery red shaded with orange. Nice long sharply pointed buds developing into well formed open flower. A pure bred tea-rose of great merit.

**MARGARET DICKSON HAMILL**—Delicate straw color, its shell-like petals flushed at the edges on the reverse side with delicate carmine-rose. Strong in growth, free blooming and exquisitely fragrant. Bronzy green foliage on deep crimson leaf-stalks. Very distinct and a gem among new roses.

**Each \$1.00**

**MILDRED GRANT**—(H. T.)—Silvery white flushed delicate pink. By far the largest variety in the H. T. class, and easily the largest rose of good form. In spite of their great size and weight, the flowers are borne perfectly erect, as stems are amply stiff and strong. There is nothing coarse about it as with some large kinds.

**PAPA GONTIER**—(T.)—A vivid cherry red color, shaded yellow, reverse of petals crimson.

**PINK KILLARNEY, KILLARNEY OR IRISH BEAUTY**—(T.)—Brilliant sparkling pink with large, pointed buds, broad, wax-like petals with silvery edges and enormous semi-full flowers of exceeding beauty. One of the very finest forcers, and has become the type for a numerous family.

**PRESIDENT W. R. SMITH**—A superb new rose of American origin, producing elegant-shaped buds and open flowers. Of an exquisite silvery pink color and sweetly perfumed. Large handsome leathery foliage, on stout thornless canes, each surmounted by a handsome flower. A grand variety for the garden.

**RAINBOW IMPROVED**—(T.)—Carmine, rose and flesh. Similar to Rainbow, but larger and with the variegation in numerous small flecks instead of broad stripes.

**RHEA REID**—(H. T.)—Flowers large and double; rich dark velvety red; a good red garden rose.

**SUNSET**—(T.)—Golden amber with a faint ruddy tinge. A sport from Perle des Jardins and the equal of that fine variety. The new foliage is a deep coppery red and is very beautiful.

**SOUV DE STELLA GRAY**—Long pointed buds of rich golden yellow, dashed with crimson at base of petals. Flowers produced on long stout stems. A beautiful fancy exhibition rose, shown in fine form at the Portland Rose Show on several occasions. **Each \$1.00**



## FAVORITE GARDEN AND EXHIBITION ROSES

*A choice collection of the best standard varieties, "tried and true," sure to give satisfaction.*

**Two-year field-grown plants, not prepaid, 75c; doz. \$8.00.**

**BESSIE BROWN**—(H. T.)—Creamy white; large, full, of very fine form. An exhibition rose. **Each 60c**

**CHATEAU DES CLOS VOUGEAT**—Deep velvety crimson shaded with blackish maroon. The nearest approach to a black rose. As if cut from so much velvet, the most wonderful rose in color and texture. A true everblooming variety.

**DEAN HOLE**—(H. T.)—Beautiful silvery carmine, shaded bright golden pink. Free bloomer.

**DOROTHY PAGE ROBERTS**—(H. T.)—Coppery pink, suffused with apricot yellow, very free and perpetual, a delightful garden rose.

**ETOILE DE FRANCE**—This famous French Rose probably needs no extended description, for it is already quite well and favorably known. Flowers globular, very full and lasting, borne on stiff stems, well above the foliage. Color, deep velvety crimson of much richness and brilliancy. Remarkable for its strong growth and free blooming qualities.

**FLORENCE PEMBERTON**—(H. T.)—Creamy white, suffused pink. Very large and full.

**GENERAL MCARTHUR**—(H. T.)—Dazzling crimson scarlet; delicious perfume and magnificent foliage. Blooms in great profusion.

**GEORGE DICKSON**—Very large, full and perfectly formed flowers freely produced. Color, blackish crimson of velvety texture, reverse of petals heavily veined with crimson maroon. A magnificent rose, invaluable for exhibition.

**GRUS AN TEPLITZ or VIRGINIA R. COXE**—(H. T.)—Color fiery crimson, with a dark velvety sheen, very fragrant. Free blooming. **Each 60c**

**J. B. CLARKE**—New Irish variety of great merit either for garden decoration or for cut flowers. The color is bright crimson shaded maroon; petals large, well-shaped and of immense substance; flowers very full and perfectly formed. Growth vigorous and tree-branching habit; flowering freely and continuously from early Summer until late Autumn.

**JONKHEER J. L. MOCK**—(H. T.)—Inside of petals red, outside silvery blush white. Rapid grower.

**JOSEPH HILL**—(H. T.)—Salmon pink shaded yellow. Outside petals yellow suffused copper.

**JULIET**—(H. B.)—A wonderful combination of old gold on the outside of petals and a rich rosy red on the inside. Flowers large, full and delightfully scented.

**KAISERIN AUG. VICTORIA**—(H. T.)—Elegant, large pointed buds; large, full double flowers; color delicate creamy white; fragrant.

**LA FRANCE**—(H. T.)—A silvery rose, changing to pink. A general favorite. Sweetest of all roses.

**LYON**—(Pernetiana)—Beautiful shrimp pink with salmon and chrome yellow shadings. Large coral red buds, beautifully formed. A continuous and free bloomer.

**MAD. ABEL CHATENAY**—(H. T.)—Color beautiful rosy carmine, with darker shadings.

**MAMAN COCHET**—(T.)—Color is a deep rosy pink, the inner side of the petals silvery rose.

**RICHMOND**—(H. T.)—Vivid red buds and flowers of the most perfect and desirable form.

**SOLEIL D'OR**—(Golden Sun)—The first of a new type and from which the wonderful Lyon Rose was developed. A perpetual bloomer, robust grower, brownish wood foliage, beautiful bright green and scented. Flowers very double, most beautiful when full blown, a superb color, varying from gold and orange yellow to reddish gold and shaded with nasturtium red.

**SOUV. DE PRESIDENT CARNOT**—(H. T.)—Lovely shell-pink, delicately tinted with gold fawn on rich creamy white. Superb for bedding.

**VISCOUNTESS FOLKSTONE**—Flowers borne on strong stems, with thick foliage; color, delicately tinted flesh, almost white, with beautiful satin finish; one of the most beautiful varieties in cultivation; should be in every collection.

**WHITE MAMAN COCHET**—(T.)—Immense size, exquisitely fragrant; long, pointed buds.

**WINNIE DAVIS**—Fine apricot pink shading to the flesh tint at base of petals. A grand hardy garden rose.

### Baby Rambler or Dwarf Polyanthus Roses

**Two-year-old plants, not prepaid, 75c each**

**BABY RAMBLER**—(Dwarf Bush Type)—Not over 18 inches high, producing large trusses of light crimson flowers; clean dark green foliage.

**CECILE BRUNNER**—Bright, rose, yellowish in center; very sweet; dwarf polyanthus.

**PERLE D'OR**—Clusters of dainty Nankeen yellow buds with orange center, very beautiful.

**PINK BABY RAMBLER**—(Mrs. W. Cutbush)—Clusters of pretty double bright pink flowers; freely produced in panicles; always in bloom.

### Single Roses

**Two-year Only—Not prepaid**

**AUSTRIAN COPPER**—(A. B.)—A beautiful single rose of bright reddish copper. **Each 60c**

**IRISH ELEGANCE**—(S.)—Large, single, golden bronze flowers of great beauty, free and constant bloomer, with deep bronze foliage. **Each 75c**

**IRISH FIREFLAME**—(S.)—Deep orange splashed crimson, changing to fiery orange crimson; buds hold shape long time. **Each 75c**

## FINEST HARDY PERPETUAL ROSES

FOR Eastern Oregon and Washington or in sections where the winters are severe, this collection will thrive and bloom freely where the Tea and Hybrid Tea roses would not prove satisfactory

Two-year-old plants, not prepaid, 75c each; \$8.00 per doz.

**AMERICAN BEAUTY**—(H. P.)—One of the largest, sweetest and best; rich, rosy crimson, shaded and veined in a most charming manner.

Each 60c

**BARONESS ROTHSCHILD**—(H. P.)—Flowers of immense size; color bright rosy pink.

Each 60c

**CONRAD F. MEYER**—A most valuable addition to the list of hardy free-blooming roses. The color is a beautiful pure silvery pink.

**DUCHESS OF WELLINGTON**—(H. P.)—Intense saffron yellow stained with rich crimson which as the flower develops, become deep coppery saffron yellow. Delightfully fragrant.

Each \$1.00

**FRAU KARL DRUSCHKI**—(H. P.)—The white American Beauty. Makes splendid buds and immense flowers; perfectly double.

**GENERAL JACQUEMINOT**—(H. P.)—Bright, shining crimson; very rich and velvety.

Each 60c

**HUGH DICKSON**—(H. P.)—Glowing crimson-shaded scarlet. A strong grower and perpetual bloomer (should be cut back freely).

**MADAME CAROLINE TESTOUT**—A grand rose of the La France type, but with flowers larger and finer. Color, bright satiny pink; very fragrant and free in bloom. One of the handsomest roses and should be planted extensively

Each 60c



*Frau Karl Druschki.*

**MARGARET DICKSON**—(H. P.)—White with pale flesh center; large, shell-shape, petals; fragrant.

**MRS. JOHN LANG**—(H. P.)—A soft, delicate pink, with satiny tinge; very free flowering

**PRINCE CAMILLE DE ROHAN**—(H. P.)—Dark, rich, velvety crimson, passing to intense maroon, shaded black; best of its color.

**PAUL NEYRON**—(H. P.)—Deep, shining rose; blooms freely, the largest variety in existence.

**ULRICH BRUNNER**—(H. P.)—Extra large, bold flowers, full and globular; color, rich glowing crimson, elegantly flamed with scarlet.

Each 60c

### The Popular Rambler Roses

*The Rambler Roses are strong, vigorous climbers, growing ten to twelve feet high in one season.*

2-year-old plants, not prepaid, 75c each  
doz. \$8.00

**FLOWER OF FAIRFIELD**—Brilliant crimson, base of petals white; a splendid grower and a great improvement over the old type.

**DOROTHY PERKINS**—Polyanthus type; a beautiful bright shell-pink; large double flowers.

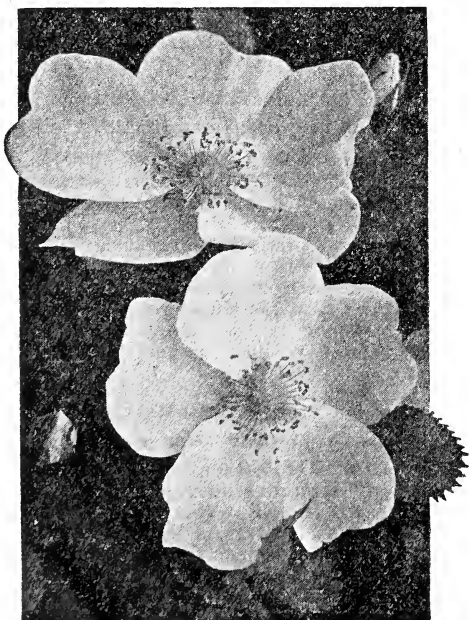
**RED DOROTHY PERKINS**—Fine crimson rambler; glossy green foliage; never troubled with mildew. Flowers very double.

**TAUSENSCHON**—A lovely shade of soft pink, free and vigorous; splendid foliage.

### Moss Roses

Price, each 60c; dozen \$6.00

White, Red, Pink Crested



*Single Roses*

# CLIMBING AND PILLAR ROSES

Two-year-old bushes, field grown, not prepaid, 75c each; doz. \$8.00 (except as noted).



**MARECHAL NEIL**—A magnificent deep golden yellow variety; so famous as to need no description; finest of its color. Each \$1.00

**CLIMBING PAPA GONTIER** — (T.) — A "Native Sport" from this favorite variety.

**CLI AMERICAN BEAUTY**—Rich crimson color; delightful fragrance; very free bloomer.

**CLIMBING BELLE SIEBRECHT**—(C. H. T.)—Flowers identical with bush type; vigorous climber; hardy.

**CLIMBING CECIL BRUNNER**—Clusters of pretty pink flowers, especially beautiful in bud.

**GLOIRE DE DIJON**—Free flowering; delicate tea scent; color, a blending of amber.

**CLI. GENERAL McARTHUR** — (H. T.) — Dazzling crimson scarlet; delicious perfume and magnificent foliage. Blooms in great profusion

**CLIMBING FRAU KARL DRUSCHKI**—Identical to bush type; good pillar rose.

**CLIMBING KAISERIN** (Mrs. Robert Peary) —Flowers large, ivory white, of heavy texture.

**CLIMBING LA FRANCE**—Identical with the well known La France; vigorous climber.

**CLIMBING LADY ASHTOWN** — Vigorous climbing sport of this valuable rose. Each 50c

**CLI MADAME CAROLINE TESTOUT**—Immense globular flowers of the same beautiful shade of pink as seen in the bush sort.

**CLIMBING METEOR**—Rapid grower; rich, dark, velvety crimson flowers.

**PINK CHEROKEE**—Lovely single blossoms, 3 to 5 inches in diameter, saucer shaped and of a beautiful shade of light pink.

**REVE D'OR (Climbing Safrano)**—Color apricot yellow, with orange and fawn tints.

**CLI. SUNBURST**—A splendid climber of the same beauty and freedom of bloom as the bush form of this popular rose. Each \$1.00

## ALPHABETICAL LIST OF ROSES

	Price	Page
Admiral Ward.....	\$ .85	22
American Beauty.....	.60	24
Augustus Hartmann.....	1.00	21
Austrian Copper.....	.60	23
Baby Rambler.....	.75	23
Baroness Rothschild....	.60	24
Bessie Brown.....	.60	23
Betty.....	.85	22
British Queen.....	.85	22
Cecile Brunner.....	.75	23
Chat. Des Clos Vougeat..	.75	23
Cleveland.....	1.25	20
Columbia.....	1.50	20
Conrad F. Meyer.....	.60	24
Constance.....	1.25	20
Countess Clanwilliam....	1.25	20
Crimson Emblem.....	1.00	21
Dean Hole.....	.75	23
Dorothy Page Roberts....	.75	23
Dorothy Perkins.....	.75	24
Duchess of Wellington... 1.00	24	
Edward Mawley.....	.85	22
Etoile de France.....	.75	23
Florence Pemberton.....	.75	23
Flower of Fairfield.....	.75	24
Franz Deegan.....	1.00	21
Frau Karl Druschki.....	.75	24
General Jacqueminot....	.60	24
General McArthur.....	.75	23
George Dickson.....	.75	23
Gloire De Dijon.....	.75	25
Gorgeous.....	1.25	20
Grus An Tepitz.....	.75	23
Harry Kirk.....	.85	22

	Price	Page
Hoosier Beauty.....	\$1.00	21
Hugh Dickson.....	.75	24
H. V. Machin.....	.85	22
Irish Elegance.....	.75	23
Irish Fireflame.....	.75	23
Jonkheer J. L. Mock....	.75	23
Joseph Hill.....	.75	23
Juliet.....	.75	23
Kaiserin Aug. Victoria..	.75	23
Killarney Brilliant.....	1.00	21
Lady Alice Stanley.....	.85	22
Lady Ashtown.....	.85	22
Lady Battersea.....	.85	22
Lady Hillingdon.....	1.25	20
Lady Roberts.....	.85	22
La France.....	.75	23
Lillian Moore.....	1.00	21
Los Angeles.....	1.50	20
Louise Catherine Breslau	1.00	20
Lyon.....	.75	23
Mad. Melanie Souper....	1.00	21
Mad. Ravary.....	1.00	21
Mad. Abel Chatenay....	.75	23
Mad. Caroline Testout... 1.00	21	
Mad. Edouard Herriott..	1.00	21
Maman Cochet.....	.75	23
Marechal Neil.....	1.00	25
Margaret Dickson.....	.75	24
Marg. Dickson Hamill... 1.00	22	
Marquis De Sinety.....	1.00	21
Melody.....	1.00	21
Moss Roses.....	.60	24
Mildred Grant.....	.85	22
Mrs. Aaron Ward.....	1.00	21

	Price	Page
Mrs. Alfred Tate.....	\$1.00	21
Mrs. Charles Russell....	1.00	21
Mrs. John Laing.....	.75	24
Old Gold.....	1.00	21
Ophelia.....	1.00	21
Papa Gontier.....	.85	22
Paul Neyron.....	.75	24
Perle D'Or.....	.75	23
Perle von Godesburg....	1.00	21
Pink Baby Rambler.....	.75	23
Pink Cherokee.....	.75	25
Pink Killarney.....	.85	22
President W. R. Smith....	.85	22
Prince Camille DeRohan	.75	24
Radiance Red.....	1.25	20
Rainbow Improved.....	.85	22
Rayon D'Or.....	1.00	21
Red Dorothy Perkins....	.75	24
Red Letter Day.....	1.00	21
Reve D'Or.....	.75	25
Rhea Reid.....	.85	22
Richmond.....	.75	23
Soleil D'Or.....	.75	23
Souv. De Pres. Carnot... 1.00	22	
Souv. De Stella Gray....	1.00	22
Sunburst.....	1.00	21
Sunset.....	.85	22
Tausendschon.....	.75	24
Tipperary.....	1.25	20
Ulrich Brunner.....	.60	24
Viscountess Folkstone..	.75	23
White Maman Cochet....	.75	23
Winnie Davis.....	.75	23



## ORNAMENTAL CLIMBING VINES

### Clematis

Clematis is one of the most beautiful and useful climbers. Their magnificent flowers, borne in great profusion in beautiful shades of lavenders, purples, reds and white, make them especially attractive. Clematis requires a rich loamy soil, but manure should not touch the roots. Cut out the weak and surplus branches in the spring, and tie the vine up well to its support.

**VILLE DE LYON**—Red.

**HENRYI**—Fine, large, creamy white flowers; a strong grower and very hardy.

**JACKMANII**—Intense violet purple, with a rich velvety appearance; distinctly veined.

Large plants, each \$1.00, postpaid

**CLEMATIS PANICULATA**—A rapid and vigorous grower; it produces sheets of medium-sized, pure white flowers of the most pleasing fragrance; well adapted for covering trellises or fences.

Choice plants, 60c to 75c

### Honeysuckle

**BELGIAN**—Flowers yellow, blotched with red above; blooms all summer, fragrant. Each 75c

**JAPANESE**—Evergreen; fragrant flowers, white changing to yellow. Each 75c

**HALL'S**—Evergreen, very popular; white turning to yellow. Each 75c

**WHITE TARTARIAN HONEYSUCKLE**—Large bushy upright growth, flowers freely and red or orange fruit stays on until late. Fine for backgrounds. Each 50c to 75c

### Jasmine

**JASMINE NUDIFLORUM**—Branches drooping, enveloped with bright yellow flowers before leaves appear. Each 60c

**JASMINE OFFICINALIS**—Free-blooming, pure white flowers, star-shaped; foliage delicate; evergreen. Each 60c

Prices on this page unless otherwise stated F.O.B. Portland; if mailed, postage extra.

**ANNUAL VINES**—*Cobaea Scandens*, Wild Cucumber, Canary Bird, Morning Glory, Nasturtiums, etc.  
SEEDS AND PLANTS IN SEASON.

**Diamond Plant Food** For Ferns, Palms and House Plants. Clean, Odorless, Highly Concentrated. A complete, powerful fertilizer, wonderfully invigorating to all plants, producing luxuriant foliage and larger and more brilliant flowers. A 40c package will feed a dozen large plants a whole year. Special instructions on each package.—Postpaid 50c.

**APHISCIDE**—THE BEST SUMMER SPRAY FOR ROSES. Quarts, 35c; Gallons, 65c

### Wistaria

**W. SINENSIS**—(Chinese Wistaria—Grows 15 to 20 feet in a season; has long, pendulous clusters of pale blue flowers in May and June and in Autumn. Choice plants \$1.50 to \$2.50

**WISTARIA CHINENSIS VARIEGATED**—Yellow variegated leaves, pretty after flowering for the beautiful speckled foliage which is very attractive among other green foliage. Flower same as common Chinese Wistaria. \$1.50 to \$2.50

**W. MULTIJUGA**—Similar to Wistaria Sinensis except in color of flowers which are dark violet blue, borne in very long racemes. Each \$1.50 to \$2.50

**W. BRACHYBOTRYS**—White flowering. \$1.50 to \$2.50

Small plants of Wistaria Chinensis for Spring delivery at 50c to \$1.00.

### Ampelopsis

**VEITCHEI** "Boston Ivy"—Leaves glossy green, coloring bronze in Fall; flowers small; berries deep blue. Each 75c

**QUINQUEFOLIA**—"Virginia Creeper"—Common American Ivy. Each 60c

### English Ivy

Large, thick, shining, leathery leaves; evergreen. Each 35c

### Trumpet Vine

**BIGNONIA RADICANS**—(Trumpet Vine)—Strong climber; deciduous; flowers orange scarlet. Each 60c

### Dutchman's Pipe

**ARISTOLOCHIA SIPHO**—A handsome bright green luxuriant vine, having large foliage and brownish, pipe-shaped flowers. A strong rapid grower. Strong plants. Each \$1.00

**AUSTRIAN BLUE BELL**—Evergreen climber. During the summer loaded with blue bell shaped flowers. Each 35c



Deliveries can be made from November until May, but orders are accepted at any time for delivery in season.

**W**E use every precaution to deliver healthy, vigorous stock, but the measure of your success will depend upon the planting and care given, as careless or ignorant handling kills thousands of fine trees and plants every season. Avoid unnecessary exposure of roots to the air. In the case of evergreens that are "balled," **do not remove the burlap.** Plant as received, only cut the string around the top, then **loosen the burlap after the tree is set.** If you cannot plant immediately on receipt, always **"heel" in the trees so their roots may be in contact with good soil.**

Leaving the ground loose after planting has caused tremendous losses that are generally and unjustly blamed to the nurseryman. Another cause of great loss is the wind working the newly set trees loose from the soil. This kills them. Always stake newly set trees if in a windy situation. After trees are set, make a plan of the grounds, marking the different varieties, then remove the wire labels, as they may damage the growing limb.

An hour's exposure of roots to wind or sun may kill any tree; this is especially true of evergreens. In planting cut off the bruised or broken roots with a sharp knife.

If the soil is good and properly prepared, only a hole large enough to easily take the roots need be dug, but better results can always be obtained by digging out a large space and filling in with good top soil. In setting the trees, do not put deeper than they stood in the nursery, excepting some dwarfs, which go a little deeper. **Be sure to Pack the Earth Solidly Around the Roots.** The neglect of this important detail is responsible for many failures.

## DECIDUOUS SHRUBS

Prices F. O. B. Portland.

### Almond (*Prunus*)

**PINK FLOWERING**—(P. Japonica.) Well known early dwarf shrub. Double clear pink little roses festoon the gracefully bending branches. **Each \$2.50**

**WHITE FLOWERING**—(P. Japonica.)—Same though white flowers. **Each \$2.50**

**ARROW WOOD**—(*Viburnum Dentatum*)—A handsome shrub adapted to wet soils.

**AZALEA**—(A. Mollis)—Very bushy, a young and proficient bloomer. Colors, red, orange and yellow. **Each \$1.50**

### Berberry

**PURPLE LEAVED**—Having purple foliage, very pretty. **Clump 75c each**

**COMMON** (B. Vulgaris)—Very graceful and well known; with showy fruit in Fall. **Each 75c**

**B. THUNBERGII**—Japanese. Dwarf habit; foliage changes to a beautiful red in Autumn; good hedge plant. **2 to 3 ft., each \$1.00**

### Cherry (*Cerasus*)

**Each \$1.50**

**FLOWERING CHINESE**—Large double white flowers.

**FLOWERING SIEBOLDS RED**—Large double red flowers.

**FLOWERING SIEBOLDS WHITE**—Large semi-double white flowers.

### Crab (*Malus*) **Each \$1.25**

**BECHTEL'S FLOWERING** (M. Ioensis Bechteli)—Flowers pink and very fragrant. In appearance, a tree of roses.

**FLOWERING** (M. Floribunda)—Tree low growing, fine for lawn or to accompany similar shrubs.

### Deutzia

**PRIDE OF ROCHESTER** (Deutzia Crenata)—Tall, very beautiful. Flowers double white. **2-3 ft., each \$1.00**

**SLENDER** (D. Gracilis)—A very popular and desirable low-growing shrub. **2-3 ft., each \$1.00**

**LEMOINE'S** (D. Lemoinei)—A very small shrub with spreading branches, usually about three feet tall. Leaves bright green; flowers white in large clusters. **Each \$1.00**

**DOUBLE PINK** (D. Crenata Flora Rosa Plena)—Beautiful dainty pink flowers. Very showy. **3 to 4 ft., each \$1.00**

## DECIDUOUS SHRUBS—(Continued)

### Elder

**GOLDEN LEAVED**—Foliage retains its bright golden color through summer. 4 ft., \$1.00

**CUT LEAVED** (*S. Nigra Laciniata*)—Deep, cut foliage. 3 to 4 ft., \$1.00

### Filbert

**PURPLE LEAVED**—Leaves and husks purple, very ornamental. Nuts good. 3 to 4 ft., 75c

### Forsythia (*Golden Bell*)

Most common; deep green foliage. Fine in partial shade. 2 to 3 feet, 75c

### Honeysuckle

**BUSH**—Very beautiful. 3 to 4 feet, 75c.

For others, see Vines.

### Hydrangea

**PANICULATA GRANDIFLORA**—Immense panicles of bloom, from July to November, creamy white, pink flush. Prune back in early spring, about half of previous year's growth. Hardy everywhere; good for cemetery planting.

2 to 3 ft., 75c

3 to 4 ft., \$1.00

**JAPANESE or HORTENSIA**—Blue, pink, white and others. Strong: See page 31.

**FRENCH**—Very desirable.

### Lilacs (*Syringa Vulgaris*)

**COMMON PURPLE**—Very fragrant, an old favorite. 3 to 4 feet 75c; 10 \$6.00

**COMMON WHITE**—Same as above, flowers white. 3 to 4 feet 50c; 10 \$4.50

**CHAS. X (Single)**—A strong rapid grower; trusses large and loose, color reddish purple.

**MARIE LE GRAYE (Single)**—Flowers large, beautiful creamy white; bush dwarf.

**MME. CASIMIR PERIER**—The finest double white Lilac yet introduced. The individual flowers, which resemble miniature Tuberoses, as well as the truss, are of immense size, deliciously scented; fine for cutting.

**CHOICE PLANTS** 3 to 4 feet, each \$1.00

### Mock Orange (*Philadelphus*)

**GRANDIFLORA**—Flowers large. Slender twig habit. 3 to 4 feet, each 50c; 10 \$4.50

**HYBRID.** 2 to 3 ft. 50c

### Quince

**JAPONICA (Japan Flowering)**—Blossoms vary from the richest scarlet to the most delicate blush color; the fruit is deliciously fragrant, but not edible.

2 to 3 ft., each 60c to 75c

### Spiraea

Each 75c

**SPIRAEA THUNBERGII**—Charming spiraea with graceful form and abundant blooms.

**SPIRAEA or NINEBARK GOLDENLEAF** (*P. opul. var.*)—Golden-leaved form of preceding.

**BILLARD'S** (*S. Billardi*)—Flowers red in dense spikes, blooms most of Summer.

**VAN HOUTTE'S BRIDAL WREATH** (*S. Vanhouetii*)—Very graceful; flowers white in round clusters. May.

**CRIMSON**—*Anthony Waterer* (*S. Bumalda*)—A most desirable variety, having deep red flowers, blooming all Summer, fine for foreground planting.

**JAPANESE** (*S. Callosa*)—Purplish foliage while young, flowers rosy pink in July.

### Tamarix

**JUNIPERINA**—Ornamental tree with soft, Juniper-like leaves, pink flowers.

3 to 4 ft. \$2.50

### Weigelia

**CANDIDA**—Flowers white, bush tall. 75c

**ROSEA**—Flowers light pink, shrub compact 75c

**EVA RATHKE**—Flowers red, one of the best. Slightly dwarf. 75c

**VARIEGATED**—Leaves become silver white. 75c

### Snowball

**COMMON**—Flowers globular, pure white, in May. 3 to 4 feet, each 60c; 10 \$5.00

**JAPANESE**—Flowers pure white, delicate large globular heads, in May. 2 to 3 feet 85c

### Smoke Tree

Low growing and shrubby, flowers feathery appearing like a cloud of smoke.

3 to 4 feet \$1.00

## Miscellaneous Ornamentals

**BAMBOO**—Ornamental plant, with almost evergreen foliage. Strong clumps, 3 to 6 feet.

Each \$1.00 to \$2.00

**PAMPAS GRASS**—Ornamental grass, easily grown, producing long, pointed leaves and majestic, silvery white plumes; 6 to 8 feet high.

Strong roots, each 75c

Large specimen plants, \$2.00 to \$5.00

**ST. JOHNS WORT** (*Hypericum Moserianum*)—Low growing with yellow blooms; a drought resister. July and August.

Clumps 50c

**TRITOMA (Pfitzeri)**—Or Red Hot Poker—Rich orange-scarlet, blooming from mid-summer to latest fall; spikes 3 to 4 feet high; winters best if lifted and stored in sand. Fine for borders or mass effects.

Strong flowering roots 25c, doz. \$2.50, postpaid.

**YUCCA**—Spanish Bayonet or Adam's Needle—Bell-shaped flowers on laterals, forming a perfect pyramid; fine for rockwork. 2 to 3 feet.



# SHADE AND ORNAMENTAL TREES

**S**PACE will not permit us to give more than the very briefest description of ornamentals in this booklet, but complete descriptions and detailed information covering your planting problems will be promptly and cheerfully furnished on request, together with such suggestions as we feel will prove helpful to you. We shall be pleased to quote special prices on larger grades than those offered in the list. Such varieties as we have marked with an asterisk (\*) can be supplied in many cases in larger grades and in large quantities.

When large trees are planted, they should be cut down to within 8 feet of the ground and all laterals should be shortened in, thinned out if they are too thick and cut away entirely to about 6 feet off the ground.

We shall be pleased to give quotations to persons desiring large numbers.

Prices of the following are for the 7 to 8 feet grade, excepting where otherwise specified.

## DECIDUOUS TREES

### Ash

**AMERICAN WHITE**—Broad, round head and dense foliage. Very fine. Each \$1.00; 10 \$9.00

### Basswood (*See Linden*)

#### Beech

**AMERICAN** (*F. Americana*)—Unequalled for splendor. Each \$1.50

**EUROPEAN** (*F. Sylvatica*)—This is the Beech famous in England and seems to thrive equally well in this country. Each 75c

**PURPLE LEAF** (*F. Sylvatica Purpurea*)—The well known purple-leaved beech. Its brilliant foliage makes it a very effective tree where rich color effects are wanted. Each \$2.00

### \*Birch (*Betula*)

**EUROPEAN WHITE** (*B. Alba*)—Silvery white bark and slender drooping branches. Each \$2.00

### Catalpa

Splendid trees, white flowers, bright foliage.

\***CATALPA WESTERN** (*Speciosa*)—Very rapid grower, fine as a quick shade. 7 to 8 feet, each \$1.50; 10, \$12.00

### Dogwood (*Cornus Florida*)

**WHITE FLOWERING**—Flowers white, 3 in. in diameter, blooming before leaves come in spring. Price, 4 to 5 ft., ea. \$1.50; 10, \$12.00

**RED FLOWERING**. 2 to 3 ft., each \$2.00

### \*Elm

**AMERICAN WHITE**—A magnificent tree with drooping branches.

7 to 8 ft., ea. \$1.25; 10, \$10.00

**CORK BARK**—Desirable for street planting. Young branches very corky. Each \$1.25

**AMERICAN BLACK** (*U. Americana Purpurea*)—Same as above though more erect. Each \$2.00

**EMPRESS TREE** (*Paulownia Imperialis*)—Tropical looking, rapid growing, with large round leaves. Each \$2.00

### Hawthorne

**PAUL'S DOUBLE SCARLET**—(*C. Monogyna Pauli*)—A tree of fine habit; flowers bright scarlet, large, full and very double in heavy clusters on long sprays. Each \$1.50

**DOUBLE WHITE**—(*C. Monogyna Alba Plena*)—Flowers small. Leaves lustrous green color. Each \$1.50

### Horse Chestnut (*Aesculus*)

**WHITE FLOWERING**—(*A. Hippocastanum*)—Foliage showy, flowers stand in upright panicles. Each \$1.00

**RED FLOWERING**—(*A. Rubicunda*)—Same as above, flowers red. Each \$1.25

### \*Laburnum (*Golden Chain*)

**LABURNUM**—(*L. Vulgari*)—A beautiful small growing tree, with long, drooping racemes of fragrant yellow flowers.

### Larch (*Larix*)

**AMERICAN**—(*L. Americana*)—Tree native, rapid grower. Each \$2.00

**EUROPEAN**—(*L. Europea*)—A tall conical tree, very graceful in park and landscape; remarkable for its soft green foliage, which expands with the first warm days of early Spring. Each \$2.00

### Linden (*Tilia*)

**AMERICAN**—(*T. Americana*)—Shapely and handsome, foliage large.

**EUROPEAN**—(*T. Europea*)—Similar to American. Leaf smaller. Each \$1.50

### Locust (*Robinia*)

**BLACK**—(*R. Pseudacacia*)—Rapid grower, fine for street planting. Each \$1.00

### Magnolia

**CUCUMBER TREE**—(*Magnolia Acuminata*)—Tall, pyramidal tree. Showy leaves and yellowish white flowers. Each \$2.50

## DECIDUOUS TREES—(Continued)

### Maple (*Acer*)

**ASH LEAVED**—(A. Negundo)—A rapid grower fine street tree, foliage ash-like. **Each \$1.50**

**OREGON SOFT**—(A. Macrophyllum)—A rapid grower, fine for avenues. Leaves large. **Each \$1.00**

**SYCAMORE** (A. Pseudoplatanus)—Tree large and spreading with handsome foliage. **Each \$1.50**

**SILVER**—(A. Saccharinum)—A rapid grower, graceful and very beautiful; leaves silvery. **Each \$1.50**

**NORWAY**—(A. Platanoides)—Large, growth compact; foliage deep green. Handsome. **Each \$1.50**

**PURPLE LEAF SYCAMORE**—(A. Pseudoplatanus purpurascens)—Purplish green foliage, sycamore-like. **Each \$1.50**

**RED**—(A. Rubrum)—Medium grower, compact and shapely. Fine for lawn or avenue. **Each \$1.50**

**SUGAR OR HARD**—(A. Saccharum)—A rapid grower, popular in the East; a shapely tree with beautiful autumnal coloring. **Each \$1.50**

### Dwarf Maple (*Acer Palmatum*)

**JAPAN RED**—(A. P. Sanguineum)—Very handsome, leaves crimson red. **Each \$2.50**

**JAPAN VARIEGATED**—(A. P. Var.)—Leaves white and green. Pretty and striking. **Each \$2.50**

**RED CUT LEAF**—(A. P. Dissectum)—The foliage is a rich crimson color, thin graceful and as delicately cut as the finest fern. One of the finest and most distinct and effective varieties. **Each \$3.50**

**GREEN LEAF**—(A. P. Aurea)—Very handsome, leaves bright green. **Each \$2.00**

### Mountain Ash (*Sorbus*)

**AMERICAN**—(S. Americana)—Very ornamental, handsome foliage turning orange red in the Fall. Red berries remain on the tree most of the Winter. **Each \$1.00**

**EUROPEAN**—(S. Aucuparia)—White flowers, then beautiful red berries. **Each \$1.00**

### Mulberry (*Morus*)

**DOWNING'S EVERBEARING**—(M. Rubra)—A rapid grower with good fruit. Fine as a shade tree. **Each \$1.50**

**NEW AMERICAN**—(M. Americana)—A rapid grower, handsome; splendid as a shade tree. **Each \$1.50**

### Oak (*Quercus*)

**Each \$1.00**

**ENGLISH**—(Q. Pedunculata)—Low growing, spreading habit and rapid growth.

**RED AMERICAN**—(Q. Rubra)—A rapid grower, large size.

**PYRAMIDAL**—(Q. Pedunculata Fastigiata)—Handsome with pyramidal branches and deep green foliage. **Each \$1.50**

**SCARLET**—(Q. Coccinea)—Pyramidal shape, foliage changes to bright red in Fall.

**OAK PIN**—(Q. Palustris)—The Pin Oak is by far the most planted of all the native oaks. Graceful in form, glossy deeply-pinnated foliage. Splendid for lawn or street. **Each \$2.00**

**OAK RED**—(Q. Rubra)—Ideal for lawn or street. **Each \$2.00**

**OAK CORK BARK**—Large acorn overcup shell. **Each \$2.00**

### Poplar (*Populus*)

6 to 8 feet, \$1.00; 8 to 10 feet, \$1.50

**BOLLE'S SILVER**—(P. Alba Bolleana)—A compact upright grower, foliage glossy.

**LOMBARDY**—(P. Nigra Fastigiata)—An erect, rapid grower.

**BALM OF GILEAD**—(P. Candicans)—Tall and handsome, branches spreading.

**CAROLINA**—(P. Caroliniensis)—A very rapid grower.

**COTTONWOOD**—(P. Deltoidea)—A very rapid growing, soft wood tree with spreading head.

### Prunus Pissardi

Foliage and fruit entirely red. Plums very good quality. **Each \$1.50**

### Prunus Vesuvius

Rich red luxuriant foliage. Holds color late in the Fall. **4 to 6 feet, each \$1.50**

### Sumac (*Rhus*)

**SMOOTH**—(R. Glabra)—Shrub or low tree with an open crown. Leaves bright green turning scarlet in Fall. Flowers in large clusters, followed by crimson fruits, which hang on all winter. **Each \$1.50**

### Sycamore or Plane (*Platanus*)

**AMERICAN**—(P. Occidentalis)—Has broad foliage and handsome bark. **Each \$1.00**

**TULIP TREE**—(Liriodendron Tulipifera)—Leaves light, glossy green, fiddle shaped flowers, greenish yellow, tulip shaped. **Each \$1.50 to \$2.00**

**DIAMOND PLANT FOOD** for Palms and Pot Plants. ½ lb. pkg. 35c; 1 lb. 50c. Postpaid

**BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG**



## EVERGREEN SHRUBS

### Azalea

**CRIMSON**—(A. Hinodegiri)—(Asahi)—Evergreen variety from Japan, bright, minute, waxy foliage that turns garnet in Winter. Loaded in early Spring with masses of scarlet flowers which almost cover the plant. Low-growing, and one of our best massing shrubs.

Choice plants, \$2.00 to \$2.50 each

**ABELIA GRANDIFLORA**—Graceful evergreen shrub with small glossy leaves and beautiful small white flowers blushed with pink.

18 to 24 inches, each \$1.00

### Barberry

**BERBERIS DARWINI**—Shrub with holly-like leaves and blue berries; clusters of yellow flowers adorn the branches in early Spring; desirable for hedges. Each \$1.50

**DULCIS**—A new variety. Strong upright grower with beautiful glossy leaves.

### Camellia

**JAPONICA**—White, pink or red. Fine winter flowering shrub with dark green glossy leaves; flowers waxy. Each \$2.50

### Cotoneaster

**HORIZONTALIS**—Delightful low-growing shrub. Glossy foliage almost evergreen, and bright red holly-like fruits. Fine for Rockery. Each \$1.50

**MICROPHYLLA**—Smaller shrub than Horizontalis; flowers white, usually solitary blooming in late Spring. Bright red berries lasting the greater part of Winter.

**SIMONSII**—More upright than the preceding. Prized for flowers and bright red berries.

### Boxwood

#### Splendid Specimens

**PYRAMID**: 1 to 2 feet, each \$3.00  
2 to 3 feet, each \$4.00

**BOX PLANTS**—For hedges and borders:  
4 to 6-inch, per 100 up \$10.00

### Broom (*Cytisus*)

**SCOTCH**—(C. Scoparius)—Branches drooping, covered in Spring with bright yellow pea-shaped flowers.

**WHITE FLOWERING**—(C. S. Alba)—Same as Scotch. Flowers white.

### Daphne

**WHITE**—(D. Odora)—Low growing, flowers in Winter; foliage glossy.

**PINK**—(D. Odora)—Similar, with flowers pink, foliage variegated.

### Holly (*Ilex*)

We have a fine lot of Hollies, both seedling and grafted stock. If wanted in quantity, write for special prices.

**ENGLISH**—(Aquifolia)—Prickly, dark green foliage; grows moderately fast, covered during the winter months with bright red berries.

Prices—Berry-bearing trees, ea. \$2.50 and up

### Hydrangea

**FRENCH**—This variety is becoming very popular and we recommend it highly. Assorted colors. Each 75c

**HORTENSIS BLUE**—Very fine Japanese variety for potting and porch decoration: large flowers, rosy blue to light blue, according to the soil. Each 75c, \$1.50, \$2.50

**HORTENSIS PINK**—Fine truss, pure pink

### Lauristinus

Luxuriant dark green foliage, with clusters of small white flowers in winter.

1 to 2 feet, each \$1.50 and up

### Laurel

**PORTUGAL**—Dwarfish, leaves dark green. flowers very sweet. 2 to 3 feet, \$3.25

**ENGLISH**—Leaves broad, flowers in clusters, creamy white, Purple berries.

18 inches to 3 feet, 75c to \$3.00

**LONICERA NITIDA**—Resembles the boxwood and is used in tubs and pots for porch decorations.

**Pyramids**—2 to 3 ft., each \$3.00. 1½ to 2 ft., each \$2.00.

**Standards**—12 inch stems, 12 inch heads, each \$2.00; 10-inch heads, each \$1.50

**Small plants for hedges**—\$8.00 per 100

**OREGON GRAPE**—(Mahonia Aquifolia)—Shining, purple, prickly leaves; bright flowers, yellow; berries blue-black. Each \$1.00

**PRIVET CALIFORNIA**—(Ligustrum Ovalifolium)—One of our best hedge plants, glossy leaves, almost evergreen. (Hedge.)

**Plants 12 to 18 in.** 10 for \$1.00; 100 for \$7.00

**Plants 18 to 24 in.** 10 for \$1.25; 100 for \$8.50

**HYPERICUM**—Aaron's Beard, Strong. Gold Flower, St. Johns Wort. Choice plants 25c ea.

### Rhododendron

**GRAFTED VARIETIES**—Magnificent, June and July flowering, evergreen shrubs; the finest and most hardy of all evergreens; they prefer a somewhat shady situation. There are many varieties, the flowers of which are produced in great abundance and in shades of the following colors: White, blue, purple, cherry, lilac, mauve and crimson.

Choice plants according to number of buds.  
15 to 18 buds, \$4.50; 12 to 15 buds, \$3.50

### WEeping TREES

#### Ash (*Fraxinus*)

**EUROPEAN WEEPING**—(F. Excelsior)—Splendid arbor tree. Each \$1.25; 10, \$10.00

#### Willow (*Salix*)

**WISCONSIN**—(S. Babylonica dolorosa)—Large glossy leaves and very pendulous habit.

Each, 75c; 10, \$6.50

**AMERICAN**—(S. Babylonica)—The well known common weeping willow.

Each 50c; 10, \$4.50

Our **DIAMOND LAWN GRASS** makes an Evergreen, Velvety Turf

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

# CONIFEROUS EVERGREENS

## Arbor Vitae (*Thuja*)

**AMERICAN**—(T. Occidentalis)—Native, known as red cedar. Foliage bright green, yellow-green underneath; brown and bronze in winter. Each \$1.50

**AMERICAN VARIEGATED PYRAMIDAL**—(T. Occidentalis Pyramidalis)—Pyramidal form, foliage dark green. Each \$2.00

**GOLDEN**—(T. Occidentalis aurea)—Elegant habit regular; foliage tinged with gold in spring. Each \$1.50

**ORIENTAL**—(T. Orientalis)—Fine, with close ascending branches of a fan shaped appearance. Each \$3.00

**HOVEYII**—Globular in form. Foliage light green. Each \$2.50

## Cedar (*Cedrus*)

**DEODAR OR INDIAN CEDAR**—(C. Deodara)—Very handsome; branches drooping; foliage silvery green. Very popular. Vigorous grower. Each \$2.00

**BLUE VIRGINIA CEDAR**—(Juniperus Virginiana Glauca)—Compact upright grower; foliage silvery blue. Each \$3.00

**VARIEGATED**—(C. Var.)—A fine tree, same as Deodara with silvery white tipped foliage. Each \$3.00

**JAPANESE CEDAR**—(Cryptomeria Japonica)—Large pyramidal trees; trunk slender and tapering; branches fern-like, upward spreading. Each \$2.50

**RED CEDAR**—(Juniperus Virginia)—Native with striking form and beautiful color. Each \$2.00

## Cypress (*Cypressus*)

### New Varieties

**BELLE DE BOSKOOP**—Compact and erect grower. Beautiful blue foliage. Each \$2.00

**ALLUMII**—Handsome pyramid shaped conifer. Foliage greenish-blue. Each \$3.00

**FILIFERA GLAUCA**—A beautiful new conifer. Silvery blue foliage. Each \$3.00

**TRIUMPH OF BOSKOOP**—Spreading habit; strong grower; one of the bluest conifers in cultivation. Each \$3.00

**CYPRESS LAWSON'S**—(Chamaecyparis Lawsoniana)—Graceful and conspicuous; branches horizontal, slightly pendulous, foliage dark green. Each \$2.00

## Fir (*Abies*)

**AMERICAN BALSAM**—(A. Balsamea)—Prized for its delightful aroma. Each \$2.00

**NORMAN'S**—(A. Normanniana)—Lustrous, deep green foliage; very symmetrical. One of the best. Each \$2.00

**WHITE**—(A. Concolor)—A fine spruce; rapid growth; very hardy. Very attractive. Each \$3.00

## Hemlock (*Tsuga*)

**WESTERN**—(T. Hookeriana)—Very beautiful and appealing; branches pendant and foliage deep green. Each \$3.40

## Juniper (*Juniperus*)

**IRISH**—(J. Communis hibernica)—Pyramidal in form, foliage silvery gray. Very striking. 2 to 3 ft., each \$2.00

**COMMON**—(J. Communis)—Branches spreading. Fine trees. Each \$2.00

**SWEDISH**—(J. Communis Suecica)—Similar to Irish; upright; one of the best. Each \$2.00

## Juniperus (*New Varieties*)

### New Varieties

**PHTZERIANA**—A graceful growing variety with horizontal branches and grayish-green foliage. 2 to 3 feet, each \$2.00

## Japan Cypress (*Retinospora*)

**RETINOSPORA PLUMOSA**—One of the best Japanese productions, being hardy and graceful with delicate foliage.

2 to 3 feet, each \$5.00

**RETINOSPORA FILIFERA**—Perfectly upright leader and main branches quite horizontal. Foliage of a pleasing light green shade. 2 to 3 feet, each \$5.00

**RETINOSPORA OBTUSA**—A tall growing variety with spreading graceful foliage, bright green underneath. This evergreen should be first choice where only one specimen tree is needed. Each \$5.00

## Pine (*Pinus*)

**AUSTRIAN**—(P. Austriaca)—Well known and widely planted, especially at seashore, growth rapid, quite hardy. Each \$3.50

**SCOTCH**—(P. Sylvestris)—Robust growth; branches pendulous; leaves bluish green. Each \$2.50

**YELLOW**—(P. Echinata)—Rapid grower; hardy; splendid timber tree. Each \$1.50

**BULL**—(P. Ponderosa)—Branches stout, ascending above, forming a loose pyramidal head. 2 to 3 feet, each \$3.00

**UMBRELLA**—(Sciadopitys Verticillata)—Rare very hardy; leaves dark green; Japanese origin. 2 to 3 feet, each \$1.50

## Spruce (*Picea*)

**NORWAY**—(P. Excelsa)—A lofty, rapid grower; branches drooping. Fine for hedge or wind-break. Each \$3.00

**KOSTER'S BLUE**—(P. Pungens Glauca)—A strain with the brightest blue color yet obtained. New. Each \$4.00

## Yew (*Taxus*)

**AMERICAN**—(T. Canadensis)—A native evergreen, hardy, prefers shade. Each \$5.00

**ENGLISH**—(T. Baccata)—Slow growth, densely branched, head spreading, dark green leaves. 2 to 3 feet, each \$2.00

**IRISH**—(T. Baccata Fastigiata)—Upright, deep dark green foliage. Each \$2.00

BEAUTIFY your GROUNDS, for the WORLD'S FAIR, PORTLAND, 1925.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

# FRUIT TREES, BERRY BUSHES, PLANTS

**I**N THE PURCHASE of fruit stocks great care should be given to the selection of varieties that will meet your conditions and requirements, as many that thrive and bear abundantly in one section often prove disappointing under variable conditions. Also many splendid sorts for home use are totally unsuited for profitable marketing. For this reason we offer a large assortment of improved varieties carefully tested and selected for their special merits and their adaptability to varying conditions, and if you will state whether you intend growing for distant or local market or for home use, giving location and general conditions, we can recommend or assist in the selection of those varieties that will give you best results.

## KEEPING TREES OVER WINTER FOR SPRING PLANTING

This can easily be done by following the simple instructions given below:

Select a well-drained spot where the soil is mellow, and dig a trench deep enough to cover the roots well; put in one layer of trees, placing them so they will not be erect but at a decided angle; pack the dirt firmly about the roots, then place the next layer. When trees are all "heeled" in, cover the tops with boughs or bank up the earth over them. Be sure there is no grass or rubbish near to harbor mice. In mild situations where winters are not severe, do not bury or cover the tops; simply "heel in." Trees thus kept on hand ready for planting as soon as the frost is out of the ground will be found well preserved and are more sure to grow than later spring planting. Besides you get better service by ordering in the early fall as stocks are more complete.

If trees are frozen in transit, do not unpack, but set away in a cool cellar and allow them to thaw gradually. Trees or roses that are dried out and shriveled should be buried, tops and all, in moist earth for a few days. This will restore them.

Deliveries can be made from November until May, but orders are accepted at any time for delivery in season.

## APPLES

This is a good year to plant Apple trees. The standards of production and markets are well established, making an apple orchard a safe investment. Write for quotations on large orders

	Each	Per 10	Per 100	F. O. B.
First Grade, 2 years.....	\$0.75	\$6.50	\$50.00	} Portland If mailed, postage extra.
First Grade, 4 to 5 feet.....	.50	4.50	40.00	
First Grade, 1 year, 3 to 4 feet.....	.40	3.50	30.00	

### Summer

**DUCHESS OF OLDENBURG**—Large, yellow streaked with red; tree vigorous and very productive; juicy, with rich sub-acid flavor. September.

**EARLY HARVEST**—Medium size; bright straw color; tender and fine, good for table and cooking. July.

**FAMEUSE**—(Snow Apple)—Medium, roundish, greenish-yellow, with streaks of deep red on sunny side; flesh remarkably white; fine dessert fruit. October to December.

**FALL PIPPIN**—Yellowish green; good cooking apple. September.

**GOLDEN RusSET**—Medium, dull russet, with a tinge of red; flesh crisp, juicy and highly flavored. September.

**GOLDEN SWEET**—Large, pale yellow, tender and rich; good for cooking; fine bearer. August.

**GRAVENSTEIN**—Large, beautifully dashed with deep red and orange, tender and crisp, with a highly aromatic flavor; tree very vigorous August.

**MAIDEN'S BLUSH**—Medium, well shaped; yellow, with a very distinct red cheek on the sunny side; flesh white; excellent for table or cooking. September.

### Autumn Varieties

**RAMBO**—Medium, yellowish white, streaked yellow and red; tender, rich and sub-acid. very productive. September to November

**RED JUNE**—Medium, oblong, deep red; excellent for table use; one of the best early apples.

**RED ASTRACHAN**—Large, deep crimson, flesh white, moderately juicy, with an agreeable rich acid flavor; very productive. August.

**WAXEN**—Fruit medium; skin pale yellow; flesh crisp, tender, juicy sharp acid; one of the best for drying. October.

**WEALTHY**—Medium, whitish yellow, shaded with deep red; flesh white, tender and juicy. October.

**WHITE ASTRACHAN**—Greenish white, very showy, constantly growing in favor where known. Late. July.

**YELLOW TRANSPARENT**—Medium size, roundish, slightly conical; skin pale yellow. flesh tender, juicy, sub-acid; good; bears at an early age. July.

Our **DIAMOND LAWN GRASS** makes an Evergreen, Velvety Turf

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS. PAGE ONE OF CATALOG

# APPLES—(Continued)

## WINTER VARIETIES

**ARKANSAS BLACK**—Medium, round; yellow where not covered with a beautiful dark maroon, approaching black; flesh firm, fine grained, juicy; a long keeper. December to April.

**BALDWIN**—Large, rounded; deep, bright red; very productive; crisp, fine flavor; one of the best and most popular winter apples. November to February.

**BISMARCK**—The apple novelty; everyone should try it; tree of short, stocky growth, thick, healthy foliage; fruit large, handsome, yellowish, sometimes shaded red cheek; flesh tender, pleasantly sub-acid; entirely new; seldom failing to bear when two years old September.

**DELICIOUS**—A splendid apple; coming into prominence rapidly. Tree vigorous and hardy and the fruit equals the name in every respect. Fine for market and home use and especially adapted to Eastern Oregon and Washington. Keeps till April.

**GRIMES GOLDEN**—Very popular. Rich golden yellow; flesh tender, juicy and rich. Tree hardy and vigorous, bearing young. November to December.

**JONATHAN**—Tree vigorous, long lived and an early bearer. Fruit beautiful red and oblong; fine quality. Valuable as a pollenizer with Spitzenberg and Newton. October to January

**KING**—Large and handsome, striped red and yellow; tree vigorous and productive. November to December. Good mountainous apple.

**McINTOSH RED**—A seedling of the Fameuse; bright red, flesh white, very tender and delicious. Long lived and very productive. Adapted to Montana. November.

**MULTNOMAH**—(New)—A grand new sort; a hybrid between the American Pippin and Rome Beauty. Originated by H. A. Lewis. Fruit, large; color red, striped yellow; flesh white and fine and of sub-acid flavor; extra long keeper and in its prime from February to June; the coming apple for long distance shipment and Oriental trade. Price, each 50c

**MAMMOTH BLACK TWIG**—Very large; bright red, pleasant sub-acid; fine late keeper fine, vigorous tree. November to January.

**NORTHERN SPY**—Large, round, greenish yellow, stripes of purplish red; flesh white, juicy, brisk sub-acid; valuable for "top work." Requires good soil. December.

**ORTLEY, or WHITE BELLFLOWER**—White fleshed, fine grained conical fruit of superior flavor; one of the best. December to April.

**RED CHEEK PIPPIN**—Excellent variety; sub-acid flavor; yellowish green color; red cheek; large size; good bearer. Keeps till March.

**RHODE ISLAND GREENING**—Large, greenish yellow; flesh yellow, fine grained, tender, crisp, juicy and aromatic; excellent for cooking and table. October.

**ROME BEAUTY**—Large, yellow, shaded with bright red; juicy and sub-acid; fine market sort good bearer. November to February.

**SPITZENBERG**—Large, oblong; yellowish ground with broken stripes of bright red; flesh yellowish, juicy, delicious rich flavor. November to March.

**STAYMAN WINESAP**—A seedling of the Winesap. Yellow striped with red. Flesh firm, crisp, juicy and very tender and rich, sub-acid. A drought resister; a profitable market variety. January, May.

**TOLMAN'S SWEET**—Medium size, pale, whitish yellow, tinged with red; flesh firm; rich and very sweet; best to preserve; vigorous, productive. November to April.

**WAGENER**—Good size; deep red in the sun; flesh firm and fine grained; good keeper; sub-acid; excellent filler; requires thinning. October to December.

**WINTER BANANA**—Fancy market fruit; pale yellow with pink blush. Has a delightful aroma and suggestive banana flavor. Not a good shipper. November.

**YELLOW NEWTOWN PIPPIN**—Large; skin smooth, golden yellow; flesh firm, crisp, juicy; one of the standard varieties for export. December to May.

**YELLOW BELLFLOWER**—Large, oblong, yellow, sometimes a blush in the sun; flesh firm, crisp, juicy, sub-acid; tree a good grower and very productive; succeeds well in this valley. October to January.

Apples are the MOST Dependable most salable orchard CROP and are SURE Money Makers

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

## CRAB APPLES

Nice stocky trees, each \$1.75; per 10, \$6.00; if mailed postage extra.

**FLORENCE**—Red striped; early good annual bearer, juicy and crisp; fine for home gardens. September 1.

**TRANSCENDENT**—Very large, good for cider; yellow striped red. Productive. Adapted to Montana. September.

**HYSLOP**—Large, deep crimson; hardy. November and January.

**RED SIBERIAN**—Yellow with scarlet cheek. Bears young and abundantly. September.

**YELLOW SIBERIAN**—Fruit small, fine golden yellow. Good. August.

## PEARS

**WE CAN SUPPLY** all standard varieties of Pears, but list only those in greatest demand. If the variety you want is not listed, write us.

50 at hundred rate—500 at thousand rate.

	Each	Per 10	Per 100
First Grade, 1 year, 4 to 6 feet.....	\$0.75	\$7.00	\$60.00
First Grade, 1 year, 3 to 4 feet.....	.60	5.50	50.00

F. O. B. Portland; if mailed, postage extra.

## AUTUMN VARIETIES

**BARTLETT**—Large; skin thin, clear, lemon yellow, with soft blush on the sunny side; flesh white, buttery, very juicy and highly flavored; the best summer pear in existence. August, September.

**BEURRE BOSCH**—Large, beautiful, russet; highly flavored; fine for shipping. September.

**BEURRE CLAIRGEAU**—Large, yellow, shaded with orange and crimson; covered with russet dots; flesh yellowish, buttery, juicy. September.

**BEURRE D'ANJOU**—Large, handsome, fine flavor; tree vigorous; heavy bearer; keeps till Christmas. September.

**CLAPP'S FAVORITE**—Large, pale lemon yellow, marbled with crimson; flesh fine grained and melting, with rich vinous flavor. July, August.

**COMICE**—A splendid commercial variety, bearing of fine size; good appearance; ships well. October.

**FALL BUTTER**—A favorite fall pear; yellow, sweet and juicy. September.

**FLEMISH BEAUTY**—Large, beautiful, rich and sweet; pale yellow with slight russet. Adapted to Montana and the Northwest. September, October.

**LOUISE BONNE DE JERSEY**—Large, greenish yellow, brownish red in the sun, marked with gray dots; flesh juicy, melting; very prolific. October.

**SECKEL**—Rich and highly flavored; its highly concentrated, spicy, honey flavor is unequalled; skin brownish green, russet brown cheek; September, October.

## WINTER VARIETIES

**BEURRE EASTER**—Large, oval yellow, with red cheek; excellent winter pear; February, January.

**P. BARRY**—Fine keeper. Very large; juicy, fine grained, yellow. December, March.

**WINTER BARTLETT**—This fine pear originated in Eugene, Oregon. Fruit large, closely resembling the famous Bartlett in shape and appearance, but ripening considerably later; flavor almost identical with the Bartlett; is undoubtedly one of the few pears of recent introduction of real merit.

**WINTER NELLIS**—Medium; skin yellowish green, dotted with gray russet; flesh yellowish white; fine grained, of a rich saccharine, aromatic flavor. December.

**VICAR OF WAKEFIELD**—Large, long, green in color; sweet, good keeper; heavy yielding; hardy winter sort.

## QUINCE

PRICES:	Each	10
First Grade, 2 years.....	\$1.00	\$9.00
Postage Extra		

**APPLE OR ORANGE**—Well known standard variety; early; large, golden yellow; good for preserving or flavoring. September.

**CHAMPION**—Large, yellow; flesh cooks very tender; flavor is most delicious; more productive than the orange. October.

**MEECH**—Beautiful yellow, but rather small; not so marketable as some larger sorts. Tree a young and unfailing bearer.

**PINEAPPLE**—Flavor is suggestive of the pineapple; the fruit resembles the Orange quince; making superior jelly; can be eaten raw and has a most exquisite and delicious flavor, not equalled by any other quince. September.

**GOULD SPRAYERS** will give and maintain the necessary pressure to spray right. They are built for lasting service. See General Catalog.

## CHERRIES

4 to 6 ft., \$1.25 each, \$10.00 per 10, \$90.00 per 100

F. O. B. Portland; if mailed postage extra

**BURBANK**—(Burbank's Production)—The earliest of all large cherries; the fruit is extremely large for an early cherry, attractive deep crimson color, and of superior quality. The Burbank produces as well or better than most late cherries, but it brings the early market price. This cherry means profit to you.

**BING**—Originated in Oregon, from seed of Black Republican; fruit large, dark brown or black; very fine; late; good shipping variety. July.

**BLACK REPUBLICAN**—(Lewelling)—Seedling, raised by Seth Lewelling, of Oregon; large size, black, sweet, with purplish flesh; late and a good shipper. June.

**KENTISH**—(Early Richmond)—Dark red, juicy; one of the best sour cherries and unsurpassed for cooking purposes; very productive. Mid-May.

**LAMBERT**—Fruit of largest size and of fine quality; color deep rich red; flesh firm and of fine flavor; a fine market variety; ripens two weeks later than Royal Ann. Mid-July.

**LATE DUKE**—Large, light red; late and excellent, sub-acid. Late July.

**MAY DUKE**—Large, rich, dark red; flesh tender, juicy and sub-acid; an excellent variety and one of the earliest of its class. May

**OREGON**—Large, black, solid, free, vigorous and productive; a fine shipper. July.

**ROYAL ANN**—(Napoleon Bigarreau)—A magnificent cherry of the largest size; pale yellow becoming amber in the shade; richly dotted and spotted with deep red, and with a bright red cheek; flesh very firm, juicy and sweet. Tree a rapid grower and immense bearer July 1.

## PRUNES

**If you can—Grow Prunes**—The demand is always good and will increase every year as they can only be grown in certain sections, but where conditions are right they are easily and profitably produced.

**PRICES, except where noted: (Special prices in 1000 lots)**

	Each	Per 10	Per 100
First Grade, 2 years . . . . .	\$1.00	\$9.00	.....
First Grade, 1 year, 6 to 8 feet . . . . .	1.00	9.00	\$75.00
First Grade, 1 year, 4 to 6 feet . . . . .	.50	4.00	35.00
First Grade, 1 year, 3 to 4 feet . . . . .	.40	3.00	25.00

F. O. B. Portland, postage extra

**GIANT**—Largest prune known; fruit averaging 1½ to 2 ounces each; retaining the good qualities of the smaller varieties.

**HUNGARIAN**—Very large; dark red, juicy and sweet; good shipper. August.

**ITALIAN**—(Fellenberg)—Large, oval, tapering at both ends; dark purple; flesh greenish yellow; separates freely from the stone; best for drying. August.

**Write for Special Prices in Quantities**

**PACIFIC**—Large, sweet; same color as Italian. Good canner or to eat raw. Early August.

**PETITE**—(French)—Medium, egg shaped; violet purple; sweet, rich and sugary; very productive; standard variety for drying. August.

**PLANT a Prune Orchard Now.**

**SILVER**—Seedling of the Coe's Golden Drop; tree vigorous and productive; fruit large and superior; excellent for drying or canning. September.

**NEW STANDARD**—(Burbank Production)—The trees are enormous and never failing bearers, and good, healthy growers. Well grown fruits measure four and a half inches around one way by nearly six inches the long way. Skin purple, with a heavy blue bloom; flesh amber or honey yellow, fine grained, juicy, yet firmer than most other drying prunes, very sweet and a perfect freestone.

**SUGAR**—(New)—Tree vigorous grower; early variety; fruit ripens 28 days before the French; is four times as large and dries in half the time; flesh tender and rich in sugar; color dark purple. Early August.

## PLUMS

2 year, \$1.00

4 to 5 ft., 50c each, \$4.50 per 10, \$40.00 per 100

3 to 4 ft., 40c each, \$3.50 per 10, \$30.00 per 100

F. O. B. Portland

**BRADSHAW**—Redish purple, juicy and pleasant; adheres partially to the stone. July.

**COLUMBIA**—Largest size, nearly globular; brownish purple; rich, sugary, freestone. August.

**COE'S GOLDEN DROP**—Very large; light yellow; sweet and delicious. Late September.

**DAMSON**—Small, oval, bluish purple; flesh melting, rather tart. Tree very fruitful and hardy. August.



## PLUMS—(Continued)

**DAMSON—SHROPSHIRE**—Medium size, dark purple; very firm; flesh greenish, juicy and rich. Vigorous. Late September.

**GREEN GAGE**—Small round; flesh pale green, melting and juicy; freestone. Mid-July.

**MAYNARD**—Dull red, large, round and firm; rich and sweet; sturdy, quick-growing, heavy-yielding variety; extra fine; ripens in July.

**PEACH**—Very large; skin brownish red, slightly coarse grained, but juicy; freestone; very popular. July.

**PRINLEW PLUM**—Best large Plum for fruit market. Larger than Giant Prune and quite solid meat. Good shipper.

Each \$1.00; 10, \$8.50

**SATSUMA**—(Blood Plum)—Quite popular. large, dark red from skin to pit, which is small, firm and juicy; tree productive. Early July.

**WASHINGTON**—A large plum; skin dull yellow, with a pale crimson blush; flesh firm; very sweet and luscious; freestone. Early August.

**YELLOW EGG**—Very large; skin of a deep golden color, but rather acid; excellent for cooking; very showy. August.

## PEACHES

4 to 5 ft., 75c each, \$6.50 per 10, \$50.00 per 100

F. O. B. Portland; postage extra if mailed

**EARLY ALEXANDER**—One of the largest and best of the extra early varieties. Almost freestone. July.

**EARLY CRAWFORD**—Very large, yellow, red, cheek; sweet and excellent; popular for table and canning; freestone. August.

**ELBERTA**—Very large, bright yellow, red cheek; juicy, sweet; regular bearer; freestone. Late July.

**HALE'S EARLY**—Early, free; extra quality; hardy; prolific.

**LATE CRAWFORD**—Very large; yellow, dark red cheeks; flesh deep yellow; juicy; rich and excellent; freestone; valuable for canning and drying. September.

**LOVELL**—Leads all other freestones, especially in California; medium to large; shaded red; flesh firm and rich. Fine for canning drying and shipping. Tree vigorous and good bearer. August.

**MAYFLOWER**—Beautiful red all over; extremely early; tree hardy and healthy. Last of June. Freestone.

**MUIR**—Large, pale yellow; very firm and sweet; best for drying; freestone. August.

**SALWAY**—Creamy yellow, red cheek; flesh deep yellow, red at the pit; rich and sweet. Freestone. Late September.

**TUSCAN CLING**—Very large; yellow, blushed red. Vigorous; strong grower. July, August

## APRICOTS

4 to 5 ft., 75c each, \$6.50 per 10, \$50.00 per 100

3 to 4 ft., 50c each, \$4.50 per 10, \$40.00 per 100

F. O. B. Portland; postage extra if mailed

**THE LEWIS**—The new Lewis Apricot is the largest, strongest growing, best yielding, best flavored apricot we have ever seen, and is perfectly hardy. Grown extensively in the "Goodnoe Hills" district. July, August.

**MOORPARK**—Very large, yellowish green, brownish red on the sunnyside; flesh bright orange; fine for canning and drying; freestone. July, August.

**ROYAL**—Above medium size; sweet, rich juicy; good dryer and canner. July.

**TILTON**—Large; rich color, high flavor; very productive; similar to Royal; later. July.

**BLENHEIM**—Deep orange, sometimes blushed; tender, rich and juicy. Tree vigorous. Good for Pacific Coast. Last of June.

## NECTARINES

4 to 5 ft., 75c each, \$6.50 per 10, \$50.00 per 100

F. O. B. Portland; postage extra if mailed

**BOSTON**—Large, deep yellow, bright blush; flesh yellow; very rich and luscious. Best for Oregon. August 1.

**VETCHES**—Sown in your orchard this Fall will make a good cover crop to turn under in the Spring.

**EARLY VIOLET**—Medium; skin pale, shaded violet; flesh white; good. July.

## DWARF FRUIT TREES

Ideal for home gardens; come into bearing early. Forty Dwarf Trees can be planted in a space 50 feet square and will not shade the ground, which can be cultivated between the trees. For best results Dwarf Trees must be planted in good rich soil and be well cared for; they should be pruned back about two-thirds of their new growth each spring.

**PRICE:** Each \$1.00, 10 for \$9.00. F. O. B. Portland, postage extra.

**DWARF PEARS**—Bartlett. **DWARF APPLES**—Write for varieties.

## NUT TREES

### Almond (*Nut Bearing*)

**ALMOND**—(Nut Bearing)—Almonds can be grown successfully in many sections of Oregon and Washington, and are attracting much attention from commercial orchardists. We can supply most of the leading varieties at price listed. Special prices on large orders.

3 to 5 ft., each 75c; 10, \$6.00; 100, \$50.00

**I. X. L.**—A vigorous grower and sure cropper, producing nuts of large size and handsome appearance; shell thin; most popular commercial sort.

**NONPAREIL**—Tree beautiful, slightly weeping; nut sweet and shell very thin. Best for the home.

**BUTTERNUT**—A beautifully formed tree bearing a rough coated nut of most attractive flavor, well known to the Middle West. Succeeds fairly well in the Pacific States.

3 to 5 ft., each 75c; 10, \$6.00

### Hickory

**SHELLBARK**—Popular Eastern variety, tree hardy but slow grower. Nuts medium size, very good. Quality excellent.

3 to 5 ft., each \$2.00; 10, \$15.00

### Filberts

**BARCELONA**—Magnificent large nut from Spain, first quality; can be grown as low standard tree or bush.

2 to 3 ft., each 75c; 10, \$5.00

**DU CHILLY**—The largest Filbert on Pacific Coast. Nuts are broad, 1 inch by  $\frac{3}{4}$  of an inch; full fleshed and sweet; best grown as low standard. Special prices on large orders.

Du Chilly is a good polonizer for Barcelona.

2 to 3 ft., each 75c; 10, \$5.00

**KENTISH COB**—An English variety of fair quality and liked by many planters. Nuts large and good tasting.

2 to 3 ft., each 75c; 10, \$5.00

## WALNUTS

Walnuts are a sure and profitable crop on the Pacific Coast, and we also urge their planting for shade and ornamental purposes. They grow rapidly, are free from pests, and are handsome and lasting. Only grafted trees should be planted as they yield heavier, the nuts are of better quality and more uniform.

### Grafted Walnuts

We offer a splendid strain of Franquettes, the best variety for this section, grafted on four-year California Black Walnut—study, thrifty trees with big fibrous roots. Samples can be seen at our store. The best to plant. Comes to bearing much younger than seedling walnut.

**Prices F. O. B. Portland.** 3 to 4 ft., each \$1.75  
land. 4 to 5 ft., each 2.00

Cannot be mailed 5 to 6 ft., each 2.50

### Seedling Walnuts

**FRANQUETTE AND MAYETTE**—Second generation, soft shell, selected stock. Trees hardy and prolific bearers. Nuts are rich and meaty.

Each \$1.00

**CALIFORNIA BLACK**—A rapid grower and very desirable; nut medium size, with hard, smooth shell. Adapts itself easily to different climates.

Each \$1.75

## CURRENTS

Currents are a profitable, easily grown crop, and the market is always good.

**PRICES:** Each 25c; 10 \$3.00; 100 \$15.00. F. O. B. Portland, postage extra.

**PERFECTION**—New; largest and most prolific currant; bright red, rich flavor, mild sub-acid.

**BLACK NAPLES**—Very large, black, rich, tender; fine for jellies and wine. Productive, vigorous.

**CHERRY**—Very large; deep red; fine for preserving valuable market variety.

**FAY'S PROLIFIC**—Bright red, very sweet; fruit hangs on better than most varieties.

**VICTORIA**—Large, bright red bunches; late productive.

**WHITE TRANSPARENT**—The best white currant known. Splendid market variety; rich flavor; mild sub-acid.

Items on this page are F. O. B. Portland. If mailed, postage extra, unless otherwise stated.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

## GRAPES

PRICES, except where noted: Write for prices in quantity.

	Each	Per 10	Per 100
2 year plants, not prepaid, postage extra.	\$0.25	\$2.00	\$15.00

**CAMPBELL'S EARLY**—Berries large, nearly round, black, with light purple bloom; flesh rather firm but tender; quality rich, sweet, slightly vinous; a strong and vigorous grower. August.

**MOORE'S EARLY**—Bunch medium; berry large, resembling Concord, but more pulp and is earlier.

**CONCORD**—Large, black grape; bunches compact; berries round, sweet and pleasant. August.

**DELAWARE**—One of the finest of our native grapes; grows freely and is perfectly hardy; ripens early; berries small, light red. August.

**EATON**—Vigorous grower; very productive; bunches large, compact; fruit large, round, black, covered with a thick blue bloom. September.

**NIAGARA**—Bunch medium; berry large, roundish, uniform; skin thin but tough; pale yellow; flesh tender and sweet; vine vigorous and productive; one of the best white grapes. September.

**WORDEN**—Bunch very large and compact; berry large, black; an improved Concord Late August.

### European Varieties

**FLAMING TOKAY**—Large, light red; flesh firm and sweet; fine table sort and a good shipper. September.

**Tokay, Muscat, Malaga and other European Varieties, Choice Plants at above Prices.**

### Diamond Fertilizers

*Are a safe investment. Ask for our Booklet.*

**"FERTILIZERS"**

## GOOSEBERRIES



PRICES: Each 25c; per 10 \$2.00; per 100 \$12.00, F. O. B. Portland

**PEARL**—Large, light yellowish green; very hardy and free from mildew; superior in size and quality. Very prolific.

### Raspberries (Red Caps)

Prices except where noted: Not prepaid,

1 year—Each 15c; per 10, 75c; per 100 \$3.00

**CUTHBERT**—Deep rich red, large and firm; one of the best market berries. Ripens medium to late.

**MARLBORO**—Standard, light crimson, large, very firm; good commercial variety; ripens early.

**SURPRISE**—(Everbearing)—Red, the earliest and most productive of any known variety. Where climate conditions will permit, the fruit can be picked every month. It is common to see a mass of ripe fruit and blossoms on the plant at the same time. Hardy in any section where it does not go below zero. Color good, flavor unsurpassed.

We recommend giving it a good trial.

Each 15c; 10, 75c; 100, \$5.00. Not prepaid.

**OREGON CHAMPION**—Berries very large, pale green; sweet, fine; bush strong, prolific bearer. This is the standard commercial sort for our section and is best for home use.

### Raspberries (Black Caps)

Prices except where noted: Not prepaid,

2 years—Each 25c; 10, \$2.25; 100, \$20.00

1 year—Each 20c; 10, \$1.50; 100, \$12.50

**GREGG**—Of good size, fine quality; very productive and hardy. Takes same position among black caps as Cuthbert among the red sorts.

**PLUM FARMER**—Large black, hardy and productive. One of the very best.

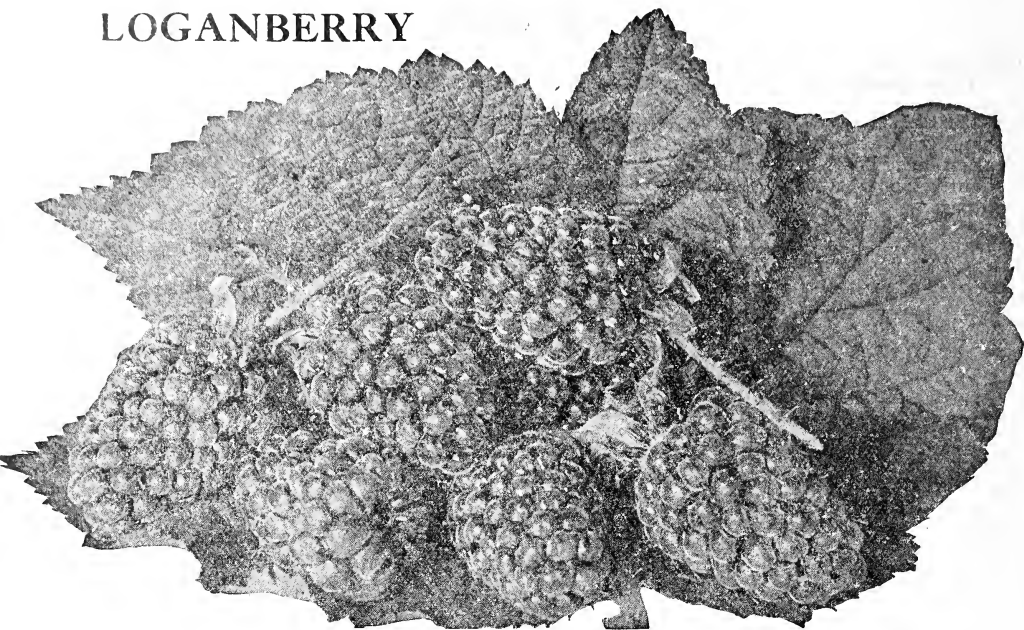
**CUMBERLAND**—Very large; similar to Gregg.

**KANSAS**—Black. Similar to Gregg, ripening earlier. Good commercially; strong grower and productive. Drouth resistant.

### Vegetable Plants

*In Season—See Annual Seed Catalogue.*

## LOGANBERRY



The loganberry is generally larger than the blackberry, often an inch and a quarter long; color dark red and produced in immense clusters. It partakes of the flavor of both the blackberry and raspberry. Fruit ripens early; excellent for jelly or jam. June.

**PRICES, not prepaid**—Large, well-rooted plants; Two-year-old, each 25c; 10 for \$2.25; 100 for \$20.00. One-year-old, each 15c; 10 for \$1.35; 100 for \$12.50.

## Dewberry

Price, not prepaid, each 20c; per 10, \$1.50; per 100, \$12.50

**LUCRETIA**—Fruit large, soft, sweet; no hard core. Hardy, good for this coast. Last of May.

**GARDENIA**—Large glossy black; delicious, heavy bearer; trailing vine. June.

## BLACKBERRIES

**PRICES, not prepaid, 2 years:** Each, 20c; 10, \$1.75; 100, \$15.00

**ELDORADO**—A valuable new variety; fruit large, jet black, melting, sweet and rich; hardy and very productive; fine for Oregon.

**LAWTON**—Fruit large; very productive; well and favorably known; Oregon's most popular kind.

**BURBANK'S THORNLESS**—Is an absolutely thornless Himalaya with all the good qualities of that splendid variety and should be grown in exactly the same way. The Burbank Thornless should be trained on wires and pruned back each year the same as grapes. All sprouts and suckers from the base of the plant should be removed as fast as they appear.

When properly handled the Burbank Thornless Blackberry will produce immense crops of berries of the highest quality, splendid for canning and firm enough to stand shipping to distant markets. The fruit is medium to late in season and is borne in great clusters right up to frost time. Being entirely thornless, the expense and discomfort of gathering the fruit is reduced to the minimum.

Each 25c; 100, \$20.00

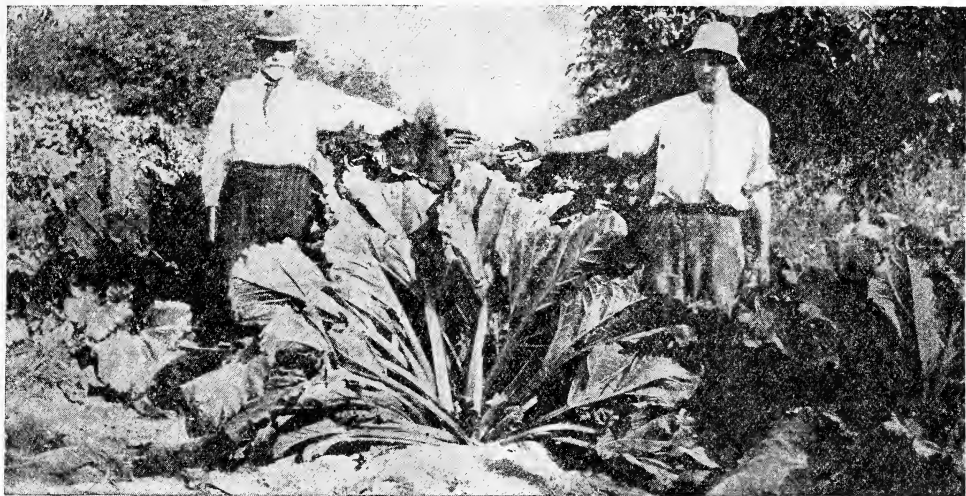
**HIMALAYA GIANT**—(Evergreen)—An exceedingly strong rampant grower of a trailing nature; everbearing; an enormous yielder. The berries are large, juicy, coreless, sweet and firm, with a delicious aromatic flavor. Its deep-rooting qualities enable it to produce a large, firm berry even in a very dry season.

**THORNLESS MAMMOTH BLACKBERRY**—(Cory)—It is a strong, vigorous grower, bears prolific; the canes grow thick and stout until about 5 or 6 feet long when they take the trailing habit, at which time they should be trellised.

It has a delicious flavor of its own, somewhat resembling the wild California blackberry. It is self-fertilizing—never been known to fail to bear.

Another very important feature is that it is almost seedless. Each 25c; 100, \$20.00

## RHUBARB



**WAGNER'S PANAMA**—A wonderful new variety of rhubarb, being crisp, tender, free from stringiness, delicious flavor and grows very rapidly to immense size. Sure to become the leading commercial favorite. It is perfectly hardy and where the climate permits will grow and produce the entire year. In colder sections it goes dormant in the fall but starts to produce in the spring long before other varieties start to grow. It is the largest and heaviest producer known, and the originator advises that under favorable conditions 100 tons per acre can be produced.

We certainly have been fortunate in securing the exclusive handling of this wonderful plant in this locality and feel sure that our customers will appreciate it, and that a mistake cannot be made in putting out a field of "WAGNER'S PANAMA." It has been thoroughly tested by the originator.

See our ANNUAL CATALOG to be issued in January, 1922, for cut taken from a photograph of a ten months old plant. Write for Prices.

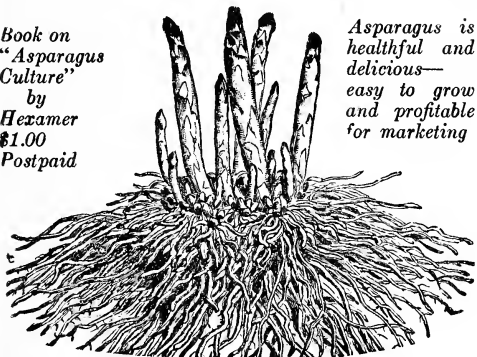
## RIVERSIDE GIANT RHUBARB

**RIVERSIDE GIANT** is very favorably known and has stood the test of time, being crisp, tender, free from stringiness with a good color and a delicious, distinctive flavor. The skin is so thin that it disappears in cooking. **Riverside Giant** has every good quality of a commercial rhubarb and is so vigorous and productive that over thirty-five tons per acre is a conservative estimate for the season. Cuttings begin in March and usually four are made, the last one in July. Full information for preparation of the soil and growing the crop, as practiced by the originator, will be sent on request to all purchasers.

**PRICE:** Each 15c, doz. \$1.50, \$10.00 per 100. Postpaid each 20c, doz. \$1.75. Special prices on large lots.

Don't plant rhubarb along a fence, near trees or other crops. Give plenty of room. Write for cultural directions.

Book on  
"Asparagus  
Culture"  
by  
Hexamer  
\$1.00  
Postpaid



*Asparagus is  
healthful and  
delicious—  
easy to grow  
and profitable  
for marketing*

## Asparagus Roots

**ONE-YEAR-OLD PLANTS**—Postpaid 30c doz.—75c per 50—\$1.15 per 100—by express or freight 25c dozen—60c per 50—90c per 100—\$8.00 per 1,000.

**TWO-YEAR-OLD PLANTS**—Postpaid 40c dozen—\$1.00 per 50—\$1.75 per 100—by express or freight 30c dozen—75c per 50—\$1.25 per 100—\$10.00 per 1,000.

## Horse-Radish

Postpaid 5c each—35c dozen—by express or freight 25c dozen—\$1.50 per 100. Write for price by the 1,000.

**VEGETABLE PLANTS**—All Standard Varieties in Season—See Seed Catalog.

**BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG.**

# STRAWBERRY PLANTS



**DIAMOND Quality Strawberry Plants** are large, vigorous and healthy. They are heavily rooted and have large, full crowns; have been carefully grown, and are free from disease and pests. We dig as ordered and pack for shipment in ventilated crates of 500 plants each. **They are grown from our select strains and are always true to name; no substitution is ever allowed without instructions from the purchaser.**

Our select strains of **New Oregon, Gold Dollar, Marshall, Magoon, Clark's Seedling** and other Western varieties, many of which were introduced by ourselves, still hold their positions as the **leading commercial varieties of the Northwest**, and are being planted more extensively each season, thus demonstrating by actual market and growing tests the great superiority of our Western varieties, against the keenest competition from all sections.

## Care For and Feed Your Plants

Neglect is the prime factor in strawberry failures, and most strawberry beds suffer from lack of attention and starvation. Proper fertilization and intelligent culture insure enormous crops of finest fruit and freedom from diseases and pests. White grubs, cutworms, crown miners, etc., can all be controlled by preventive measures. Never set strawberries in or near clover sod or hay fields. Such ground should have at least two years' cultivation before using for strawberries. Remove the mulch directly after fruiting.

## NEW OREGON

*Our Own Introduction*

**Best, Most Uniform and Heaviest Yielding Main Crop Strawberry**

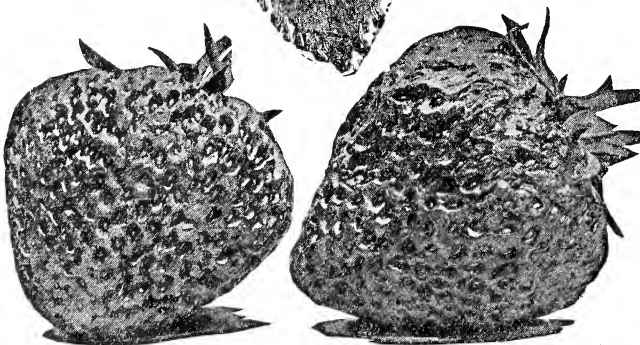
**PRICE: \$8.00 per 1000. F. O. B. (See next page for less quantity.)**


"NEW OREGON" is large, firm and of fine form, averaging 15 to the quart box; color a brilliant, deep, rich red, having a glossy varnished appearance when fully ripe. This dark blood red coloring extends through to the very center, and, no matter how large, "NEW OREGON" is never hollow. When fully ripe the distinctive flavor is suggestive of the wild berry, is crisp and delicious, and will remain on the vine for three days without injury, keeping perfectly for many days after picking; stands handling and long shipments and will hold its color, shape and flavor when canned.

"NEW OREGON" is an early bearer, being ready for marketing the first half of May in the Willamette Valley and holds up

**Big  
Healthy  
Well  
Grown  
Plants**

*Trim Roots  
here when  
ready to  
set out*



in size and quality throughout the season, which in some localities extends until frost.  The strawberries here offered have all stood the market test and you will be safe in selecting any one of them that will suit your conditions and requirements. They are the best varieties obtainable

**BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG**

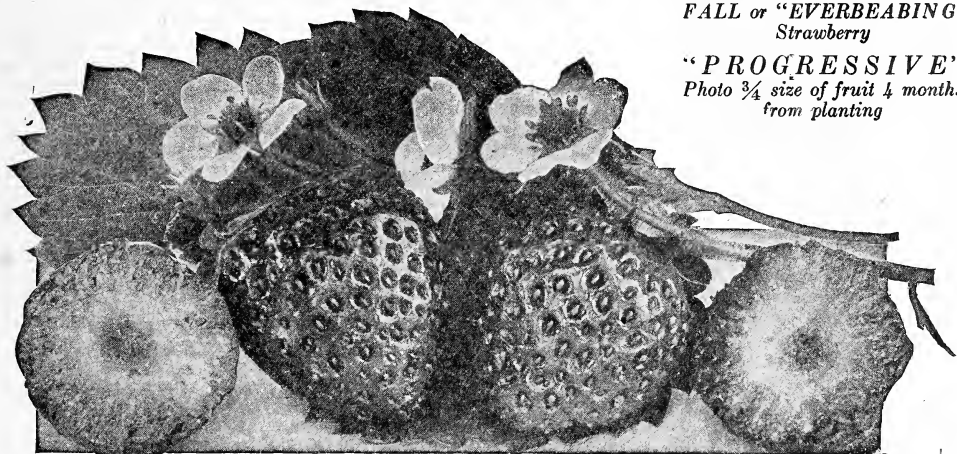


## FALL OR EVERBEARING STRAWBERRIES

FALL or "EVERBEARING"  
Strawberry

"PROGRESSIVE"

Photo  $\frac{3}{4}$  size of fruit 4 months  
from planting



Fall bearing Strawberries, also known as "Everbearing," are very satisfactory for home gardens and under some conditions will prove profitable commercially, but require special care and attention to secure best results as the late fruit will be small and yield less if the first blossoms are not removed, and the plants are allowed to fruit early and continuously. When properly grown they are of splendid quality and yield heavily until frost.

**PROGRESSIVE**—Rich, red color, firm and of delicious flavor. Good keepers and shippers. Blossoms should be cut back about 4 weeks before the berries are wanted. We consider this the best of its class.

**SUPERB**—Considered by some as being the best of the everbearing, but in our experience they do not ship as well as the "Progressive" although they are a little larger when properly grown, and the quality is fully equal to that of the best of the standard sorts.

**PRICES:** Postpaid, per doz. 60c; 25 plants \$1.00; 100 plants \$3.00  
Not prepaid, per doz. 50c; 25 plants 75c; 100, \$2.50; 1000, \$18.00

## STANDARD VARIETIES OF STRAWBERRIES

**GOLD DOLLAR**—(Extra Early)—Gold Dollar berries are large size, dark red all through and have fine flavor. Foliage heavy, large and spreading, which protects the blooms from early frosts. Gold Dollar Strawberries are the standard early berry in the big markets of the Northwest and are always in demand.

**MARSHALL**—Very large; dark crimson throughout; fine flavor; a fine market and table berry. Our stock is true, vigorous and prolific.

**MAGOON**—Berry large, fine and of excellent sub-acid flavor; bears heavily; especially adapted to Western Oregon and Washington.

**WILSON**—A heavy bearer of fine, moderate-sized berries; sharp acid flavor and the leading sort for canning.

**CLARK'S SEEDLING**—(The "Hood River Berry")—Best shipper, berries large, of delicious flavor; vines bear large crops: especially adapted to dry soil.

**PRICES:** All varieties except  
Fall Bearing

Prepaid	1 doz., \$0.30	Not	25, \$0.40	
	25, .50		Prepaid	100, 1.00
	100, 1.50		1000, 8.00	

Not less than 500 plants of a kind at 1000 rate. Special prices on 3000 or more.

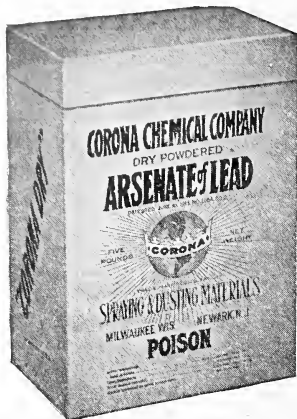
## NOTICE

Owing to the continued dry weather, Strawberry plants are making a very slow growth, and the indications are now that we will not have choice plants available for shipment before the last of November.

Owing to the scarcity of choice plants, all prices are made subject to the plants being available, and it will be well to write and ascertain if the plants can be furnished.

Always write for prices in quantities. We will make the lowest price possible on strictly A1 plants.

All our plants are officially inspected in the field by the State Horticultural officers and by our own inspectors.



## SPRAYS, INSECTICIDES

NOTE—Poisonous Sprays marked ★ cannot be mailed

★“CORONA” Dry Powdered Arsenate is a light, fluffy powder that cannot freeze, dry out, cake or lose its strength—carries the highest possible percentage of arsenic oxide, 33%—is always uniform and requires only 1 pound to 50 gallons of water. *Efficient, economical and convenient. Highest percentage of killing power.*

Prices:  $\frac{1}{2}$  lb. 35c—1 lb. 50c—5 lbs. \$2.25—10 lbs. \$3.25—25 lbs. \$7.00—50 lbs. \$11.50—100 lbs. \$22.00—200 lbs. \$42.00.

### CORONA SULPHUR, For use with Corona Arsenate SCALECIDE

*The best miscible oil spray for San Jose scale and soft-bodied, sucking insects. Also contains a powerful fungicide, which will control fungus diseases that are controllable in the dormant season.*

Use one gallon of “Scalecide” to fifteen or twenty gallons of water.

Price per qt. 40c—gal. 95c—5 gals. \$3.50—10 gals. \$6.50—50 gal. bbl. \$22.00.

### DIAMOND LIME and SULPHUR SOLUTION

Diamond Lime and Sulphur Solution is prepared in pressure tanks by steam, and is of the highest efficiency. Tests 30 Baume Scale. For old infested trees use 8 gallons water to 1 gallon. For young trees 10 gallons.

Price 1 qt. 30c—1 gal. 75c—5 gals. \$2.40—10 gals. \$4.50—50 gal. bbl. \$12.00.

SEE OUR ANNUAL 1922 CATALOGUE

### DIAMOND SPRA-OIL

The Hood River miscible oil spray, used by the big orchards for leaf roller.

As a WINTER SPRAY—For San Jose Scale Pear Scylla, Leaf Roller, Woolly Aphis, use one gallon of Spra-Oil to 15 or 16 gallons of water.

As a SUMMER SPRAY—Very efficient for young San Jose Scale and certain Aphis, diluted with 50 to 100 gals. of water to 1 gal. of Spra-Oil.

Price, qt. 40c—gal. 95c—5 gals. \$3.50—10 gals. \$6.50—bbl. \$22.00.

## Treat Your Seed with Formaldehyde

A Preventive for Smut in Grain—Scab and Fungus Diseases of Potatoes

Formaldehyde is a clear chemical, resembling water, but has a peculiar odor. It is sold by the pound (pint). One pound is sufficient to treat 40 to 50 bushels of oats.

The following method is in general use: To treat 20 bushels of oats requires  $\frac{1}{4}$  pint of Formaldehyde diluted with 5 gallons of water. Spread the oats on a floor and sprinkle with the diluted solution. Then turn them twice with a scoop shovel. Allow to stand for 12 hours. Then spread to dry. Any quantity can be treated by using the same proportions. Oats thus treated will be entirely free from smut.

Prices, pint \$1.00; quart \$1.75; gallon jug \$5.50; express or freight at purchaser's expense; cannot be mailed.

## DIAMOND FERTILIZERS WRITE FOR PRICES

### GENERAL AND VEGETABLE

An all-round fertilizer, which can be used on any crop, but is especially adapted for grain and general farm crops. Analysis: Nitrogen, 2.50 per cent; phosphoric acid, 9.20 per cent.

100 lbs. \$3.10—per ton \$60.00

### ODORLESS LAWN AND ROSE

Our Diamond Lawn Fertilizer promotes a vigorous, healthy growth, giving the desired dark rich green appearance; can be used at the time the seed is planted and later as a top dressing. Use one hundred pounds for a city lot. Analysis: Nitrogen 3.50%; phosphoric acid, 8.00%.

100 lbs. \$3.25—per ton \$64.00

### SHEEP GUANO

The best natural manure, dried and ground. Concentrated, soluble; quick in action, and free from weed seed. Splendid for vegetables; fine for roses and flowers. Excellent for lawns. Analysis: Nitrogen, 1.25 per cent; phosphoric acid 4.05 per cent.

10 lbs. 45c—25 lbs. 75c—50 lbs. \$1.00—100 lbs. \$1.75—ton \$32.00.

### FISH GUANO

Fish cooked, dried and ground is a strong fertilizer, rich in nitrogen, carrying considerable phosphorus and used largely by vegetable growers. We do not recommend this for lawns or city use.

Write for prices.

### TANKAGE

Ground meat scraps and bone, desiccated in a vacuum, is very rich in phosphoric acid and nitrogen. Per 100-lb. sack \$2.50; ton \$48.00

### NITRATE OF SODA

For immediate results Nitrate of Soda is the very best for stimulating and forcing the growth of plants or any other crop.

1 lb. 10c; 100 lbs. \$3.50; ton \$67.00

### POTASH

Kainit is an imported potash salt containing 12 to 14 per cent of potash. A good fertilizer for all crops except tobacco.

100 lbs. \$2.25; ton \$42.00

Lime Rock—(Fine Ground.) This is the form of lime recommended by the Agricultural Department. Use  $\frac{1}{2}$  to 1 ton per acre.

Write for prices.

**BONE MEAL**—Fine ground, is one of the best fertilizers. This is the only grade of Bone Meal, and is reduced by improved machinery to an even fineness—nothing is added. This is a very valuable enricher of the soil, and one of the most economical at present prices. 5 lbs. 30c; 10 lbs. 50c; 100 lbs. \$2.75; ton \$54.00

Sulphur, see Page 54.

**Prices** AS FERTILIZERS ARE SOLD ON A SMALL MARGIN, PRICES ARE SUBJECT TO MARKET CHANGES, but you will always get FULL VALUE for your money.

## MISCELLANEOUS FLORISTS' SUPPLIES

### FOR FLORISTS AND NURSERYMEN

**PLANT STAKES**—Round cedar, painted green, 3 ft. \$1.00 doz.—3½ ft. \$1.25—4 ft. \$1.60 5 ft. \$2.00—6 ft. \$3.00.

**VITAPLASTIC**—(Glazing Compound)—The best, most dependable glazing material. Never hardens or cracks. Write for circular. Price, gal. \$2.50; 5 gals. \$11.25; 30 gals. \$64.50.

**VITAPLASTIC MACHINE** \$7.50

### WOODEN POT LABELS

4-inch. Plain, per 100 20c; 1,000 \$1.30  
Painted, per 1,000, wt. pkd. 4 lbs., 1.75  
5-inch Plain, per 100 25c; 1,000 1.90  
Painted, per 1,000, wt. pkd. 6 lbs. 2.50  
6-inch. Plain, per 100, 20c; 1,000 2.40  
Painted, per 1,000, wt. pkd. 9 lbs., 3.00

**WIRED TOOTH PICKS**—2½ inches long.

**WIRED MATCH STICKS**—4 inches long.

**WIRED MATCH STICKS**—6 inches long.

**NICO FUME LIQUID**—The best fumigant and spray for greenhouse work. Kills aphids, red spider, mealy bug, thrip, etc. Write for prices.

### TREE LABELS

Painted copper wire, per 100 40c; 1,000 \$3.00  
Unpainted copper wire. wt. pkd. 4 lbs. per 1,000. Per 100, 35c; 1,000 \$2.50

**PENCILS**—Indelible, for marking. Each 15c

**WIRE HANGING BASKETS**—10 in. 25c—12 in. 30c; 14 in. 40c. Special Quantity prices.


**SUPERPHOSPHATE**—This is a concentrated form of phosphoric acid and it is actually the cheapest form in which to buy phosphoric acid. Our present stock contains 18 to 20 per cent available phosphoric acid.

Per lb. 5c; 100 lbs. \$2.25; ton \$42.00  
**ASK FOR FERTILIZER BOOKLET AND SPECIAL INFORMATION REGARDING SULPHUR.**

**GLAZING POINTS**—(Peerless)—Best point made. 1,000 in box. Weight 2 lbs. Price 90c.

Our line of Chiffons, Ribbons, Cords, Wire Designs, Foil, Baskets and general Florist Supplies stock is very complete.

### RAFFIA

 In ordering Raffia by mail, be sure to add postage on 1 lb. or more.

**RAFFIA**—Natural color. Price ¼ lb. 15c—postpaid, 20c; not postpaid, per lb. 35c.

**COLORED RAFFIA**—Any shade, the popular colors being red, yellow, orange, black, blue and purple. Per pkg. postp'd 25c, per lb. \$1.50

**Headquarters for MAGNOLIA LEAVES.** Write for prices. We can save you money.

**CYCAS LEAVES**—Sizes 8 x 12, 12 x 16, 16 x 20, 20 x 24.

**WIRE**—Cut and uncut. Sizes 18, 20, 22, 24. Cut in 12 lb. boxes, and uncut in 12 lb. coils.

**WIRE DESIGNS**—For Florists, Anchors, Bases. Broken Columns, Broken Wheel, Crescent, Crescent Wreaths, Crosses, Odd-Fellows' Pillows, Shower Wreaths, Shields, Stars, Triangles, Wreaths flat. Tell us what you want and we will supply it. Write us regarding your needs.

All Prices on this page F.O.B. Portland


Write us for your requirements in the **FLORIST Line.**

## CUT FLOWER BOXES


We can supply Cut Flower Boxes in the following sizes. Florists write for prices.

3 x18x5	3½x30x5	5x36x8	8x16x16
3 x21x5	4 x24x8	6x40x10	8x20x20
3½x24x5	5 x28x8	6x36x14	8x24x24

## FLOWER POTS

 Florists, nurserymen and growers should send list of requirements for Special Prices. **FLOWER, FERN, AZALEA POTS OR BULB PANS ALL SAME PRICE**

Size	Each	Dozen	Saucers	Size	Each	Dozen	Saucers
2-inch.....	\$0.03	\$0.20	Each	7-inch.....	\$0.20	\$2.00	\$0.07
3-inch.....	.04	.35	.....	8-inch.....	.30	3.00	.07
4-inch.....	.06	.50	\$0.04	9-inch.....	.50	5.00	.15
5-inch.....	.10	1.00	.04	10-inch.....	.85	.....	.18
6-inch.....	.15	1.50	.06	12-inch.....	1.25	.....	.25

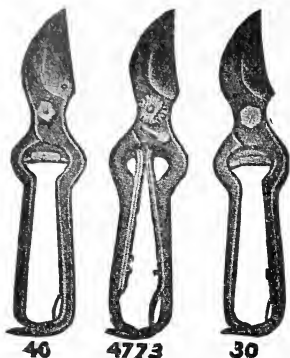
 **NOTE**—At above prices we will pack the pots carefully, but buyer must pay freight or express charges. We buy in carload lots and the wholesale trade, florists and nurserymen are requested to send for special prices, stating number wanted.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

## PRUNING TOOLS, ETC.

NOTE—Compare Numbers on cut to those in descriptions

### PRUNING SHEARS



#### NEW BASTIAN PRUNER

Makes a Clean, Sharp cut

The powerful lever of the new Bastian Pruner enables you to do the same work in half the time and with half the labor that would be required with old-style Pruners.

Blades are of finished Damascus steel, very strong, and hold their cutting edge. Simple in construction, light, strong and durable. We recommend the Bastian to all fruit growers.

Prices F. O. B. Portland.

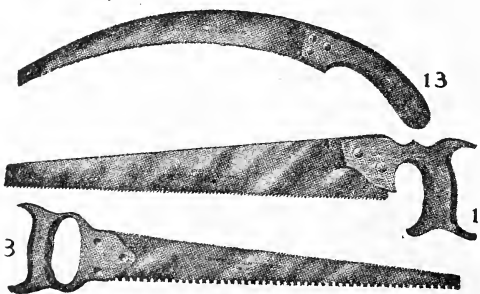
6-ft.... \$1.50 12-ft.... \$2.25  
8-ft.... 1.75 14-ft.... 2.50  
10-ft.... 2.00 16-ft.... 2.75



Bastian

### PRUNING SAWS

- No. 13.—California Pruner (Crescent). Finest silver steel. 14-inch **Each \$1.25**  
No. 1.—Pruning Saw. Made of genuine silver steel. 16-inch, each \$1.25; 18-inch, each \$1.50  
No. 3.—Duplex Pruner. 16 inch, each 1.50  
18-inch, each \$1.75.



### MOLE AND GOPHER TRAPS

OUT O'SIGHT MOLE TRAP—Sure to "get them." Weight 2 lbs. **Price \$1.25**

GOPHER TRAP—Easy Set—Never fails Weight 1 pound. **Price, each 25c**

REDDICK MOLE TRAP—No mole can pass under it and live. Weight 3 lbs. **Price, \$1.25**

No. 4773—9-inch; full polish, with double brass springs; best American make. Weight 1 lb. **Price \$2.35**

No. 40—9-inch; bright finished, polished blade, spiral steel spring; made for hard service. Weight 1 lb. **Price \$1.75**

No. 41—Same as No. 40, except with ratchet nut. Weight, 1 lb. **Price \$1.90**

No. 30—7-inch, black finish; polished blade; very good. Weight 1 lb. **Price \$1.25**

No. 31—Same as No. 30, only 9-inch ratchet nut; an American make. Wt., 1 lb. **Price \$1.40**

Levins Shear No. 23. **Price 1.00**  
Grape or Fruit thinning. **Price 65c**

### BUDDING KNIVES

Prices Postpaid

No. 13—Plain wood handle, stationary blade. **Price 50c**

### GRAFTING KNIVES

No. 6—Plain wood handle, stationary blade. **Price 60c**

### PRUNING KNIVES

No. 2—Plain wood handle, stationary blade. **Price 70c**

No. 4—Polished wood handle. **Price 90c**

### BRANCH SHEARS

No. 126—26 inch. Weight 5 lbs. **Price \$2.45**

Fig. 35—Standard pattern. Satisfactory for light work; a good value.

26-inch handle, weight 2½ lbs. **\$1.60**

Your Roses and Trees should be properly pruned and you should have good tools to use.

### BARNETT FRUIT PICKING PAIL

Built for Service  
Galvanized Iron, with  
strong canvas open  
bottom.



A great laborsaver. Wt. 3¼ lbs. **Price each, \$2.25**

### NORTHWEST

#### FRUIT PICKING LADDER

6, 8, 10 and 12 ft. lengths. Strong, light and serviceable. **Price 50c per foot**

### GRAFTING WAX

LION BRAND—¼ lb. 20c; ½ lb. 30c; 1 lb. 60c.  
Add postage at zone rate.

### WOODLARK SQUIRREL POISON


Exterminates squirrels, sage rats, field mice, pocket gophers, prairie dogs, crows.

Cannot be mailed. **Price, 1-lb. pkg., 50c**

Prices on this page F. O. B. Portland, unless otherwise stated.

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

# CLOVER AND ALFALFA SEEDS

 Write for prices on 100 lbs. or ton lots. They are always subject to market changes. Single pound prices postpaid; for larger lots add postage at zone rate.

## Alfalfa or Lucerne Clover

**ALFALFA** should be cut for hay when the shoots of the next crop appear at the base of the plants. The hay is especially valuable for dairy cows. As soon as cut it immediately commences to grow and during the hottest and driest weather, when other grasses are parched and withered, it remains fresh and green and grows as rapidly as ever. On the low lands it is not an unusual thing to harvest five or six crops of hay from the same field, in one season without irrigation, and the same result is obtained on high, dry lands where irrigation is resorted to. It will not succeed on hard, clayey soils. Its roots, in seeking moisture, penetrate to incredible depths. The seed should be sown in the Spring, after danger from freezing the young plants is over, or in the Fall, early enough to give it a good stand before frost.

Many Alfalfas are widely advertised, such as Grimm, Baltic and the Peruvian varieties. The Grimm and Baltic are yet scarce, high in price, and reliable stock difficult to secure. The Peruvian has given good results in the South and is worthy of a good trial in this section.

The domestic acclimated seed we offer can be depended upon to give splendid satisfaction.

## Grimm Alfalfa

**Grimm Alfalfa** is the hardiest Alfalfa known. In trials, at practically every Experiment Station in the West and Northwest, it has headed the list for vigor and hardiness.

**Grimm Alfalfa** has a branching fibrous root system which makes it better adapted for dry lands and irrigated lands of shallow depth of soil. Being an early vigorous grower it gives heavier cuttings and larger total yield in sections of short growing seasons.

The stock seed of Grimm Alfalfa dates back to 1857 and was brought from Europe by Grimm who settled in Minnesota. From this small start Grimm Alfalfa has been distributed and become established in sections where other Alfalfas would not thrive and it is from these plantings that the present seed supply is drawn. Being scarce and in big demand the price is high but the value of Grimm has been demonstrated beyond question and we recommend its trial.

Price per lb. 70c postpaid. Write for prices in quantities.

**DRY LAND ALFALFA**—Dry Land Alfalfa will produce large, profitable crops of hay and excellent pasture on the high, dry lands of Eastern Oregon, Washington, Idaho and Utah and is especially recommended for the hills and plateaus where irrigation is impossible. It comes from the **highest, driest alfalfa** sections, and is very superior seed.  
Per lb. postpaid, 45c. Write for prices in quantities.

**ALFALFA**—Our domestic Alfalfa is acclimated, and will thrive splendidly where growing conditions are normal, including irrigated land. Where dry farming is practiced special Dry Land Alfalfa is recommended.

Price: 1 lb. postpaid, 45c. Write for prices in quantities.

## Hairy Peruvian

Recommended by the Department of Agriculture as being more hardy than the smooth Peruvian and because it is more hardy, it has a longer growing season and will yield more tonnage per acre per year, and on that account is more valuable in some localities than in others. This variety is immune to the Nematode. This adds much to its value.

## Clovers

**WHITE DUTCH CLOVER**—(*trifolium repens*)—Superior for pasture and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass.  
80c per lb. postpaid.

**RED CLOVER**—(*trifolium pratense*)—The standard Clover for all purposes. Hardy and succeeds well on any good soil. Makes superior hay—especially mixed with Timothy—either for dairy cows or for general use.  
Write for prices.

**CRIMSON OR SCARLET CLOVER**—(*trifolium incarnatum*)—Highly recommended for pasture and fertilizing purposes. Is a thrifty annual, growing from twenty to thirty inches high. Germinates quickly, grows rapidly, and stools abundantly. Cut for hay when in full bloom. Write for prices.

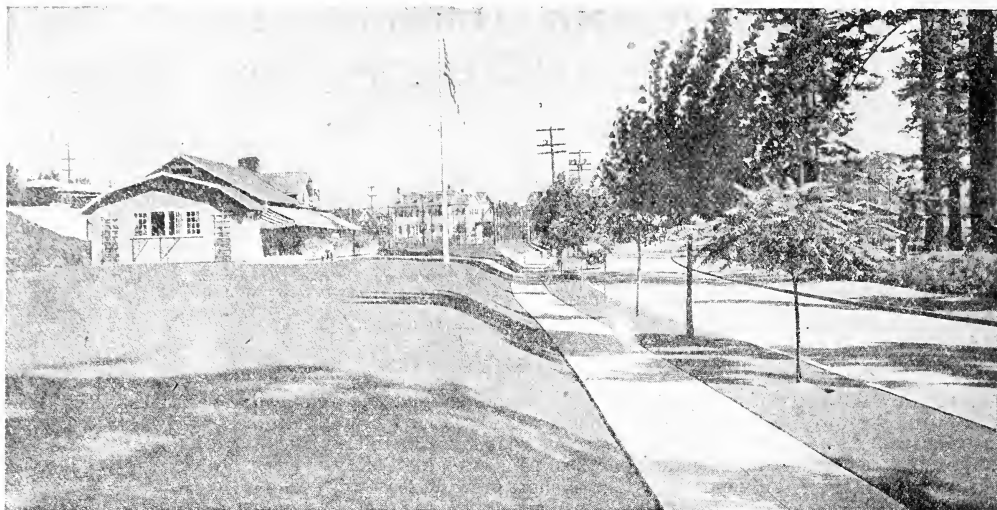
**MAMMOTH RED CLOVER**—Grows very large and is used almost exclusively for plowing under for manure. Write for prices.

**BOKHARA SWEET OR HONEY CLOVER**—(*melilotus alba*)—A rapid-growing, white-flowered sort; excellent for bees. Sow 10 pounds per acre. Write for prices.

**ALSIKE OR SWEDISH CLOVER**—(*trifolium hybridum*)—A perfectly hardy perennial. Excellent for hay and pasture. Valuable for bees. Resists both drought and excessive moisture. Write for prices.

**ESPARSETTE OR SAINFOIN**—(*onobrychis gativa*)—A deep rooting, perennial legume, extensively cultivated in dry, calcareous soils. Write for prices.

**Mulford Cultures** For *Alfalfas and Clovers* Insures a stand, increases the yield, improves the soil.



*Laurelhurst Club. The beautiful lawns at Laurelhurst were grown from our Diamond Grass Seeds*

## DIAMOND GRASS SEED MIXTURES



**DIAMOND QUALITY GRASS SEEDS** are the choicest new crop seeds, re-cleaned and tested for purity and germination, and only those stocks that grade above the established standards are offered to our customers.

Our **Special Mixtures** have been carefully worked out by the tests and observations of practical experts familiar with the requirements and conditions to be met, and will give the best results possible to obtain for the uses for which they are recommended.

### "DIAMOND" FANCY LAWN MIXTURE

**T**O have a good lawn the soil must be fine and rich, and well leveled. Then the best seed obtainable should be used. Plant any time from September until late Spring, depending upon the weather and soil conditions. Raking in the seed is advisable, and rolling greatly improves the turf. In watering your lawn soak it deeply and not too often, as light watering every day brings the roots close to the surface, where they quickly burn or dry out. You must not expect to make a fine lawn with cheap seed. The best lawn grass mixture costs more at first than the poorer substitute, but will be found much cheaper and more satisfactory in the end. Our "Diamond Quality" Fancy Mixed Grass Seed is prepared from the choicest re-cleaned Grass Seeds that have been carefully selected for their fineness and deep rooting, close growing habits and seasonable qualities, producing an ideal dense, velvety turf of lasting quality that remains green throughout the year. Sow one pound to 400 square feet, 10 to 15 pounds to a 50-foot lot.

Growing tests have proved our "Diamond Quality" Lawn Grass to be superior to any other mixture for our Western soils and climate; it is also free from chaff and foul seeds, weighing 23 pounds to the measured bushel. This is a guarantee of clean, plump seeds, as cheap chaff seed is very light.

Single lb. postpaid 70c; not prepaid 1b. 60c; 10 lbs. postpaid \$6.00

Grass Seed prices subject to change without notice. Write for prices.

Single pound prices postpaid, for larger lots add postage at zone rate.

### "DIAMOND QUALITY" SPECIAL PASTURE MIXTURES

**STANDARD PASTURE MIXTURE**—For general use; gives splendid satisfaction in the logged-off and burned-over lands of Western Oregon and Washington; is composed of standard Pasture and Hay grasses that thrive in this section; a good clean mixture, conforming to the standard of the pure seed laws.

Price 100 lbs. \$14.50

**MIXTURES FOR BURNED-OVER LAND**—In grading and cleaning grasses and clovers, we frequently find combinations that are difficult of separation, and while the seeds are often of excellent germination and quality, they cannot profitably be separated and cleaned, so we blend them to produce pasture mixtures suitable for sowing on burns and logged-off land, which at the price are splendid values and very economical for such purposes.

Price 100 lbs. \$12.00

**No. 4. FOR DRY LAND**—Mixed especially for the regions between the Cascades and Rocky Mountains, and on good common wheat land. Try this mixture, as we believe that it will give you best possible results. Sow 20 pounds per acre.

Not prepaid 10 lbs. \$4.30

**No. 11. FOR GRAZING PURPOSES**—This is a mixture of grasses only, being made up for the benefit of those who wish a mixture without Clover, and will make a fine permanent pasture, but is not intended for hay.

Not prepaid 10 lbs. \$3.75



## SPECIAL PASTURE MIXTURES—Continued

**No. 1. FOR GOOD LOAMY SOIL**—A mixture of grasses and clovers, prepared especially for good, loamy soils, that will give satisfaction as a permanent pasture or for mowing for mixed hay. For pasture, sow 20 pounds per acre.

Not prepaid 10 lbs. \$4.30

**No. 2. FOR IRRIGATED LANDS**—Use grass pastures and avoid bloat from green Alfalfa. Sow 28 pounds per acre, preferably in early spring. As soon as well established give water as needed. With proper attention a permanent pasture can be maintained.

Not prepaid 10 lbs. \$3.80

**No. 3. FOR LIGHT SANDY SOIL**—An extra fine mixture for sandy or light soils. This will make a good, strong turf, that under ordinary circumstances should last for many years. Sow 20 pounds per acre.

Not prepaid, 10 lbs. \$4.30

WRITE for PRICES in quantities, and secure the current quotations.

**No. 8. FOR ARID OR ALKALI LAND**—Particularly for arid alkali lands. This mixture is composed of varieties that have proven to be the best for the soils mentioned. Sow 20 pounds per acre.

Not prepaid, 10 lbs. \$4.70

**No. 10. HAY AND PASTURE MIXTURE FOR DRY HILL LAND**—Especially suited to the dry sections, such as parts of Southern Oregon, Eastern Oregon, Eastern Washington and Idaho. This mixture is made up of varieties that can endure a great change of temperature from heat to cold, and at the same time will make a splendid mixed hay.

Not prepaid, 10 lbs. \$4.30

**No. 12. FOR BURNED-OVER BOTTOM LAND, OR LAND INCLINED TO BE WET**—This is a mixture that will do well either for hay or for permanent pasture on land that is too wet for many of the grasses and clovers

Not prepaid, 10 lbs. \$2.90

"DIAMOND  
QUALITY"

## GRASS SEED

 Grass Seed prices subject to change without notice. Write for prices. 

Single pound prices postpaid, for larger lots add postage at zone rate.

**ITALIAN RYE**—(*lolium italicum*)—A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for temporary meadows or pastures (will last from two to six years). Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable. Sow 40 pounds per acre.

Not prepaid, 10 lbs. \$1.50

**RED TOP**—(*agrostis palustris*)—A good perennial grass. Generally sown for permanent pastures. Does best on moist or even marshy land. If the ground is not overflow land it is advisable to mix it with Meadow Fescue Orchard Grass or Alsike Clover. Sow 28 pounds per acre chaff seed; 14 pounds hulled.

**CHOICE UNHULLED**, not prepaid 10 lbs. \$2.00.

**FANCY HULLED**, not prepaid 10 lbs. \$3.00

**SHEEP'S FESCUE**—(*festuca ovina*)—Grows freely in high, dry and open pastures. Its chief merit is for sheep pasture. Thirty-five pounds to the acre.

Write for prices

**SWEET VERNAL**—(*anthoxanthum odoratum*)—Valuable to put in pasture mixtures and lawn grass on account of its earliness and its delightful fragrance when in bloom. Thrives under all growing conditions, but is only recommended for use in mixtures. If alone use 28 pounds per acre.

**ANNUAL**, not prepaid, 10 lbs. \$3.70

Write for prices

**ENGLISH RYE GRASS**—(*lolium perenne*)—A strong-growing, hardy perennial grass, noted for its nutritive qualities. It is equally valuable for both grazing and hay. Forty pounds per acre.

**For Lawns** this is used and recommended by many gardeners. If sown thickly, it makes a fine lawn, and for large grounds and parks it is very successful. Not prepaid, 10 lbs. \$1.50

**KENTUCKY BLUE GRASS**—(*poa pratensis*)—One of the best grasses for permanent pasture furnishing a constant supply of the most nutritious feed during the greater part of the year. Sow 28 pounds per acre.

**For Lawns**—Blue Grass is used very extensively for lawns and is found in all lawn grass mixtures. Sow 1 lb. to 400 sq. ft. if used alone

Not prepaid, 10 lbs. 60c

**MEADOW FESCUE**—(*festuca pratensis*)—Perennial; grows three to four feet high. Roots deep, thus resisting drouth. It succeeds on any high ordinary soil; yields a heavy crop of superior hay; one of the best grasses for pastures, being valuable to mix with other kinds. Sown alone, use 40 pounds per acre.

Not prepaid, 10 lbs. \$4.90

**ORCHARD GRASS**—(*dactylis glomerata*)—One of the most valuable of all the cultivated grasses, blooming with Red Clover, and making with it admirable hay. As a pasture grass it is more productive than any other, and does best under close feeding. Sow 28 pounds per acre.

Fancy Eastern—Write for Prices.

 Write Us for Special Mixtures for Terraces, Shady Places, Dry or Wet Land 

BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG

## GRASS SEED—Continued

 Grass Seed Prices subject to change without notice. Write for Prices.

**FALL FESCUE**—(*festuca elatior*)—Succeeds best in moist alluvial and strong clayey soils; is very productive and lasting; valuable for permanent pasture, is relished by stock and on rich land makes fine hay—height 3 to 4 feet; weight 22 pounds per bushel.

**Not prepaid, 10 lbs. \$7.20**

**HARD FESCUE**—(*festuca duriuscula*)—Fine rather dwarf, justly noted for its drouth resisting qualities. Valuable as a pasture for sheep. Sow 20 pounds per acre.

**10 lbs. \$3.40**

**ROUGH-STALKED MEADOW GRASS**—(*poa trivialis*)—Most valuable grass; flourishes in moist, rich soil; roots perennial, but soft; foliage freezes down.

**Write for prices.**

**TIMOTHY**—(*phleum pratense*)—This is the most valuable of all grasses for hay. Thrives best on moist, loamy soil. Sow early in the Spring or Fall. Sow 15 to 20 pounds per acre.

**Not prepaid, 100 lbs.**

**BERMUDA GRASS**—(*cynodon dactylon*)—Suitable only for climates where the winters are not below the freezing point. It stands the hottest and driest season. Sow 6 pounds per acre.

**Not prepaid, 10 lbs. \$7.00**

**RED or CREEPING FESCUE**—(*festuca rubra*)—Forms a close turf and is valuable for lawn and golf mixtures; thrives in sandy soils and along the coast. (14 lbs. to the bushel.)

**Not prepaid, 10 lbs. \$5.60**

**TALL MEADOW OAT GRASS**—(*avena elatior*)—Often attains a height of 3 to 4 feet by the middle of June. Makes splendid hay and thrives on sandy loam, but makes its best growth where there is some clay. Can be fed as a pasture grass, and will generally bear cutting three times. For mixing with Perennial Rye and Alfalfa for sandy soils it is excellent. Sow about 30 to 40 pounds per acre alone or half that amount if mixed with the above varieties.

**Write for prices.**

**MESQUITE**—(*notholcus lanatus*)—It is usually sown on virgin soil, without cultivation, after the ground has been burned over. Sow about 35 pounds to the acre chaff seed; hulled 15 pounds per acre.

**FANCY HULLED. Write for prices.**

**CHEAT SEED**—(*bromus secalinus*)—Cheat yields a good crop of hay, especially on low or moist soil and will stand considerable overflow without harm. It makes an excellent hay for cows or horses, but should be cut before it gets too ripe. Sow in the Fall or early Spring same as oats, and about 100 pounds per acre.

**Not prepaid, 100 lbs. \$3.25**

**CANADIAN BLUE GRASS**—(*poa compressa*)—Recommended in all pasture mixtures on dry soil; thrives well on clay or hard trodden and poor soil. Sow 28 pounds per acre.

**Write for prices.**

**CRESTED DOG'S TAIL**—(*cynosurus cristatus*)—A perennial grass with short, narrow leaves; valuable for lawns or pastures on dry, light land; makes excellent sheep pasture. Use 20-pounds per acre if sown alone.

**Not prepaid, 10 lbs., \$6.00**

## Vetches or Tares

### Oregon's Greatest Forage Plant

**COMMON VETCH**—(*Vicia sativa*)—One of the best forage plants that can be grown on the Pacific Coast. Often called Fall Vetches. It furnishes an abundance of excellent feed, either green or cut and cured for hay. The seed should be mixed with an equal weight of some variety of wheat, oats or rye having a stiff straw, and the mixture sown at the rate of two bushels per acre. Vetches weigh 70 pounds per bushel. Sow in the Fall or early Spring.

**Write for prices.**

**SAND or WINTER VETCHES**—(*Vicia villosa*)—This variety thrives on poor, arid, sandy soils. It is sown either in the Fall or early Spring, and is generally mixed with rye, which serves to support the plants. It grows to a height of three or four feet, and can be cut twice; first, as soon as the bloom appears, and afterwards for seed. The plant is perfectly hardy and makes a very nutritious food.

**Write for prices.**

**PURPLE VETCH**—(*Vicia atropurpurea*)—may be considered as a new vetch, it having been grown only to a limited extent, mainly in Oregon and California. It is a distinctly new variety and takes its name largely from the color of the blossom, which is a deep purple. It is being used by a great many orchardists for plowing under. It can be grown as cheaply as Common Vetch and should be planted in the fall on well drained fertile soil, 60 pounds to the acre. It may be used as a hay or silage crop. The plant has been found to be free from attacks of the aphids.

**Write for prices.**

**WOOLLY-PODDER VETCH**—(*Vicia dasy-carpa*)—Closely related to hairy vetch, equally hardy, two to three weeks earlier. It differs from Hairy Vetch, having nearly smooth leaves, purple flowers and hairy pods. It has succeeded splendidly wherever tested, and on account of its earliness has advantages over hairy vetch. Excellent crops are produced in Western Oregon. Recommended in this section for fall planting. It is worthy of a trial.

**Write for prices.**

**SPECIAL MIXTURES for BURNS, DRY or WET LANDS—Temporary or Permanent Plantings for Hay or Pasture—WRITE US.**



**T**HE production of fine seed oats has always been one of our leading specialties and we consider them to be the most profitable and satisfactory grain crop, being indispensable to stock and dairymen, and their use as a food is constantly increasing.

Planted in season, oats rarely fail, are easily and cheaply grown, and the valuable new varieties which we offer will double the number of bushels per acre that you would get from common seed oats, which means half the cost of production, or twice the profit.

They will mature in July from Spring sowing, giving quick returns and leaving the soil in good condition for Fall planting.

We offer select, re-cleaned, well-matured seed oats of standard varieties, suitable for this section and our own introductions, "ECLIPSE" and "CLIMAX," the earliest and most vigorous, heaviest yielding oats ever grown anywhere.

## DIAMOND HULLESS OATS

Many Varieties of Hulless Oats have been tried by the Department of Agriculture, but very few yield well enough to pay the grower.

**HULLESS OATS** grow like ordinary oats with a branching head but thresh out clean, the grain being larger than the kernel of common oats and ready for rolling or milling just as they come from the cleaner, retaining all of their richness and flavor. You can make your own oatmeal on any gristmill and it will also cook quicker than other oatmeals and you will find it of superior excellence.

**DIAMOND HULLESS OATS** stool freely, stand up well and will thrive wherever oats can be grown. They are drouth resistant and ripen in about 100 days from seeding and have given 50 bushels per acre, weighing about 54 pounds to the measured bushel. Sow at the rate of 40 to 50 pounds to the acre. **10 lbs. F. O. B. Portland \$1.30.** Write for prices in quantities.

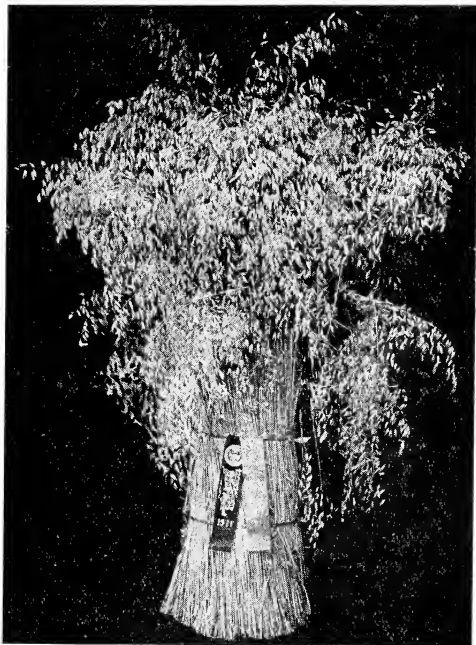
**"SENATOR"**—(A New Garton Side Oat)—Senator is highly recommended by the originators for its extreme earliness and great fertility—and is **especially adapted to heavy land.** Seeded on good land this oat will do well, and where oats are liable to lodge **SENATOR** will stand up—has stiff straw—large grains and fine color.

For exhibitions the large grains and big heads of **SENATOR** make a fine showing. By freight or express. Write for prices.

### WHICH IS YOUR CHOICE?

The difference in the cost of planting and harvesting an acre of common oats yielding 20 to 50 bushels, and of growing our record-breaking varieties that give from 80 to 135 bushels per acre is only the difference in cost of the seed (from 50c to \$1.00 per acre); in other words, *it costs about as much to plant, care for and harvest oats that yield only half a crop as it does to reap a real harvest.*

**THINK THIS OVER**



"CLIMAX" always a winner

**OATS ARE A PROFITABLE CROP**, easily grown and seldom fail. Prices are high and indications are that they will remain high for some time. Their value as a food makes them in big demand and our select seed will yield you a profitable crop.

**BEFORE ORDERING READ CAREFULLY INSTRUCTIONS AND CONDITIONS, PAGE ONE OF CATALOG**

## ECLIPSE—White Side Oat

"ECLIPSE"—Side Oat—is a reselection from our famous "Shadeland Challenge," and is living up to its name by "eclipsing" all competitors, including the parent stock, being equally as vigorous and early and the massive heads are uniformly larger and filled with plump, heavy thin-hulled oats of finest milling quality.

The yield on light dry soil where our seed crops are grown runs from 75 to 85 bushels per acre and moist bottom land 125 bushels per acre is not uncommon.

"ECLIPSE" can be planted Fall or Spring, west of the mountains (Fall plantings should be made on well-drained soil), but in severe climates early Spring planting is best. Matures in 90 to 100 days, and can always be harvested before the Fall rains. Their beautiful bright color and plumpness command the top price in the market. Try this grand new side oat.

Write for prices.

**DON'T FORGET** "Eclipse," "Climax" and "Senator" Oats have won firsts every year for over 15 years at the Oregon State Fair and at every North Pacific Land Show—an unbroken record.

They will win for you and add to your profits.

## CLIMAX—Tree Oat

"CLIMAX"—Tree Oat—For early Spring planting where seasons are short, in high, dry altitudes, and where quick growth and early maturity are demanded, "CLIMAX" will give you a bountiful harvest of the finest oats you ever saw. The white grains are uniformly large, plump and full with a very thin hull and are often borne 3 in a spikelet, which partly accounts for its wonderful yield.

In our trials "CLIMAX" has not been injured by severe early freezing and later drought, but has stood up, green and vigorous, yielding one hundred bushels per acre on hill land when oat crops throughout the same section were stunted and dried up.

If you live West of the Cascade Mountains you can plant "Climax" Fall or Spring, any time the ground is fit, but where the climate is severe, Spring plantings are best.

Write for prices

**To Know** that you are getting the genuine CLIMAX" ECLIPSE" Oats, always buy direct from our store. The vitality and true type are maintained by intelligent, scientific care and selection. Prices are so low that you cannot afford to risk any other seed oat.



Sheaf of Prize Winning  
"Eclipse" Oats

## STANDARD SEED OATS

Choice Recleaned Stock of the following varieties can always be supplied

**WHITE SEED OATS**—We always try to have a selected recleaned stock of No. 1 White Seed Oats which we can supply at market prices. Write for samples and prices on the quantity you require, or send in your order. You will always get full value for money sent.

Write for prices

**GRAY WINTER**—This Oat is planted extensively throughout the Northwest as a Fall or Winter Oat. Is well and favorably known, being a good yielder, and the Oats are large and plump.

Write for prices.

**SWEDISH RED**—A comparatively new tree Oat from Sweden having a soft hull and fine soft straw which is ideal for hay. This is the Oat grown so extensively in Northern California and along the Southern Oregon Coast. Sow in Fall or Winter. Red Oats always bring a good price in the market.

Write for prices.

# Seed Wheat

*A Seed Field of Wheat that  
Passed Inspection for Certification Under  
the Supervision of the Oregon Agricultural College*

**PRIOR** to the adoption of the U. S. Grain Standard the Pacific Northwest did not use the grades established by the big eastern wheat centers, but since the U. S. Standards have become effective it is impossible to market mixed varieties of wheat or other grains at the best prices, and growers will find it necessary and profitable to plant only clean, pure seed standard commercial varieties.

We have provided splendid stocks of the best sorts for this section and when ready to buy any variety of Seed Wheat, write us for quotations on quantity wanted or send in your order and we will give full value at lowest seed prices. The following are standard market varieties that are known as the most profitable and best yielding for fall seeding:

**PROHI WHEAT**—(Winter)—Soft, white winter. Beardless, white chaff, medium long kernel. Has a characteristic angular shape to the kernel. Is a good yielder, suited to the well drained soils west of the Cascades.

**Write for prices.**

**FORTY FOLD**—(Winter)—Forty Fold is referred to as "Gold Coin" in some sections. It is quite early, seed resembling Blue Stem. A favorite Winter variety in many localities, and in good demand for milling.

**Write for prices.**

**WHITE WINTER WHEAT**—Soft white Winter Wheat. Beardless with white chaff. Kernels short and plump. A good milling wheat suited to well drained lands west of the Cascade Mountains. Often confused with Rink Wheat but grain and head are both larger and has yielded more under same conditions.

**Write for prices.**

**RINK**—(Winter)—Similar to White Winter and often mistaken for it, but having a little shorter kernel and head. Yields well and has proven profitable on the well drained rolling lands of the Willamette Valley.

**Write for prices.**

**RED CHAFF**—(Winter)—Beardless with red chaff and white kernels. Popular variety for western Oregon and Washington. This variety is often confused with Foise.

**Write for prices.**

**RED RUSSIAN**—(Winter)—This is extensively grown in the Palouse country of Eastern Washington, where conditions are favorable. It grows vigorously, maturing late, and gives a heavy yield of both grain and foliage. It is a superior variety for choking out weeds, growing close and luxuriantly.

**Write for prices.**

**FOISE**—(Winter)—Medium hard kernels. Beardless, chaff red. Heads slightly club shaped at tip. Specially adapted to the richer soils and prairie lands of the valleys and foothills west of the Cascades, and under favorable conditions yields heavily. Mills well.

**Write for prices.**

**TURKEY RED**—(Winter)—A medium hard red bearded variety; a heavy yielder and does not shatter out easily. Is very hardy, doing well in cold climates, but in moist sections has a tendency to lodge badly. The grain is hard and of good quality. A good wheat for the dry sections east of the Cascades.

**Write for prices.**

## SEED RYE

**WINTER RYE** is hardy and can be grown on a wide range of soils and makes splendid pasture for late Fall and early Spring after which it will develop a good grain crop or can be turned under for soiling. **Write for Prices.**

**ROSEN RYE**—A fall or winter rye brought from Russia in 1909. Each head fills four complete rows of grain. The grains are much larger than of common rye and the yield double and some make it stronger and say three for one. You cannot make a mistake in trying it.

**Write for Prices**

## SULPHUR FOR ALL PURPOSES

### To Increase Crop Yields

Experiments conducted during the past few years by noted soil chemists and practical cultivators have revealed that sulphur—

1. Is readily utilized by plants as stimulating food.
2. It improves alkali soils by neutralizing the alkali which rises to the surface or which is carried in by the irrigation water.
3. Promotes nitrification: Dr. F. C. Reimer, in Oregon Agricultural Bulletin No. 163, says, "The various sulphur fertilizers have a very stimulative effect on the root system, increasing its size and the number of nodules. This is of great value in taking up larger quantities of plant food, moisture and atmospheric nitrogen."
4. Transforms latent potash and phosphates into available plant food.
5. Increases protein and feeding value of crops.
6. Destroys the spores of Fungi and larvae of injurious insects in the soil. Prevents potato scab, wire-worms, etc. Drill into the soil 100 to 400 pounds per acre of "Toro" Brand.

Write for Prices

## SPECIALLY PREPARED AGRICULTURAL SULPHUR

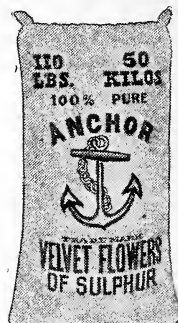
### For Dry Dusting of Trees, Vines, etc., Bleaching Fruit, etc.

It has been proven and so recommended by the University of California that if you sulphur your grape vines and orchards **SIX** times they will not be affected by **MILDEW** or **RED SPIDERS**.

Anchor Brand Velvet Flowers of Sulphur, also Eagle Brand, Fleur de Soufre, packed in double sacks, are the fluffiest and **PUREST** sulphurs that money can buy; the best for vineyards; the best for bleaching purposes, **LEAVING NO ASH**.

**VENTILATED Sublimed Sulphur**—Impalpable Powder, 100% pure, in double sacks, for Dry Dusting and making Paste or wettable sulphates.

Write for Prices.



For Lime-Sulphur Solution, Fertilizing, and General Purposes, Use Our **DIAMOND "S" BRAND REFINED FLOUR SULPHUR**



**SULPHUR, The New Fertilizer**—Recent field experiments in the Northwest have demonstrated the fact that Sulphur is one of the most valuable fertilizing materials that can be applied to the soil, not only being readily taken up as a powerful stimulant by practically all classes of vegetation, but having the further and more valuable property of making available the insoluble potash and phosphoric acid contained in all soils as well as being an effective fungicide and insecticide. We offer agricultural Sulphur in two forms:

**DIAMOND S SULPHUR**—Finely ground and 99.75% pure. Price, 100 lbs. \$2.75. Write for prices in quantities.



# SHARPLES CREAM SEPARATORS

**WE** are Northwestern Agents for the splendid products of the Sharples Co. Their new "**Suction Feed**" Separators are the only Separators that will skim clean at any speed and this feature alone guarantees one-fifth more cream than can be saved by any other separator.

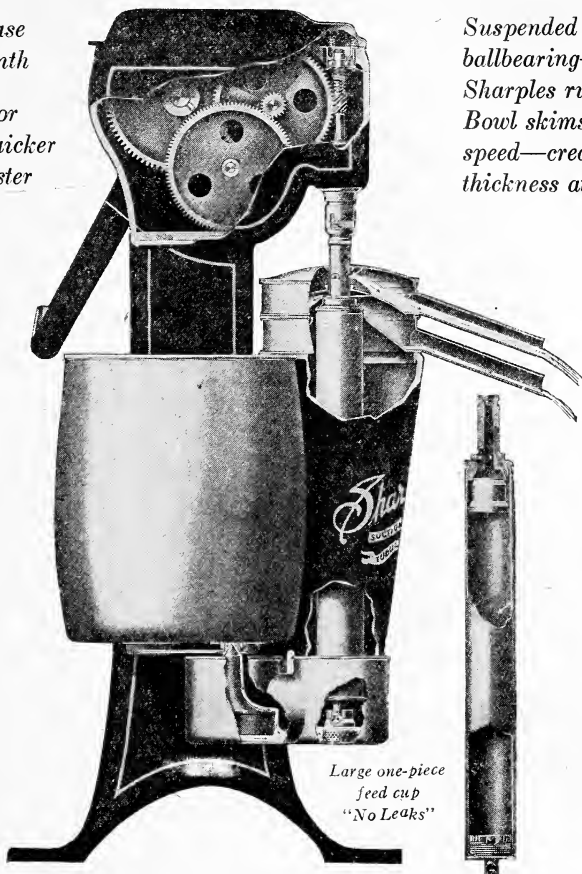
*Oil Tight Gear Case  
Oil Once a Month*

*The only Separator  
which skims quicker  
when turned faster*

*No need to watch  
your speed*

*"Suction Feed"  
sucks milk  
into Bowl  
in proportion  
to speed—result  
clean skim  
at any speed*

*The only  
Separator  
with knee low  
Supply Tank*



*Suspended single frictionless  
ballbearing—that's why the  
Sharples runs easier.  
Bowl skims clean at low  
speed—cream stays same  
thickness at any speed*

*Patented  
Tubular  
Bowl  
creates  
double  
skimming  
force.*

*The  
Simple  
Tube  
has no  
discs  
to wash*

*Large one-piece  
feed cup  
"No Leaks"*

**YOU ARE FAMILIAR** with the well known advantages of the regular Tubular Separator. You know the simple, tube-shaped bowl, with its enormous skimming force (double that of any other machine made)—no discs, easily cleaned, almost indestructible. You know the advantages of having all the gears solidly encased and running in oil. You know how the bowl hangs from a single ballbearing spinning naturally, instead of being supported from below.

**AUTOMATIC MILK SHUT-OFF. SIMPLE FEED CUP**—are only a few of the new exclusive features fully explained and illustrated in the CATALOG OF THE "NEW SHARPLES." **PRICES F. O. B. PORTLAND.**

No. 1—Cap'ty 175 to 250 lbs. per hr. . \$70.00	No. 4—Cap'ty 450 to 550 lbs. per hr. . \$110.00
No. 2—Cap'ty 250 to 350 lbs. per hr. . 80.00	No. 6—Cap'ty 650 to 750 lbs. per hr. . 130.00
No. 3—Cap'ty 350 to 450 lbs. per hr. . 90.00	No. 9—Cap'ty 850 to 1000 lbs. per hr. . 150.00

## SHARPLES PIPE LINE and ELECTRIC MOTO-MILKERS

Sharples Milkers are now being run successfully in many localities by wide-awake boys. We carry a complete stock of machines and repair parts.

**Special illustrated catalog and full information on request.**

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**RUFUS REDS AND FLEMISH GIANTS**  
**HEMALIANS—The Fur-Bearing Kind—Fine**  
 sturdy stock of extra vigor and vitality.  
 Full instructions for care and housing with  
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Thorough-Bred Pedigreed Stock on Request.

Prices depend on grade of stock and  
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Pullets and Hens from the finest laying strains, ranging in  
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Send for catalogue of **BUCKEYE INCUBATOR** and  
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Deliveries of Baby Chicks begin February 15, 1922.

Always feed **DIAMOND BRAND POULTRY FOODS.**

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Clean, healthy stocks in standard and fancy  
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**Tumblers, pair**.....\$3.50  
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Prices are F. O. B. Portland

Order ahead. Always allow from 3 days to a  
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**WRITE US for Fancy Breeds of Pigeons.**  
 We can supply them at Right Prices.

Department	Zone	Do not write in this space	Do not write in this space
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Seed			
Bee			
Nursery	O. K.	Card Made	
Potatoes		By	
Florist			

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Please read "How To Order" (Page 1) Before ordering, and save all misundersanding.  
**WRITE YOUR ADDRESS PLAINLY. DON'T FORGET TO SIGN YOUR NAME**  
**In The Blanks Below**; also keep your order separate from other matters you may wish to write about. This enables us to **Fill Orders Rapidly** and correctly, and answers to your inquiries will not be delayed or overlooked.

Name			
Post Office	R. F. D. No.	Amount Purchased	
Station		\$ ..... cts.	
County	State	Parcel Post, Express and Freight Station, without an Agent must be prepaid.	
Ship by	State if wanted by Mail, Express or Steamer.	Add \$ ..... cts.	
Date	192	Amount Enclosed	
		\$ ..... cts.	

Quantity	Article	\$	c
Over	Forward		

**Note.**—We use every precaution in procuring fresh, pure and reliable seeds, etc., but we, in common with other responsible seed houses, sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.: We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, trees or plants, sent out and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are to be returned at once.—Portland Seed Company

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From.....

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**PORTLAND SEED CO.**

**PORTLAND,**

**OREGON.**



# **POULTRY AND BEE SUPPLIES**

**Trees  
Plants  
Roses**

**Tools  
and Spray  
Pumps**

**MANUFACTURERS  
OF  
FERTILIZERS**



# NEW PARCEL POST RATES

**PARCEL POST RATES** are based on **DISTRICTS** and **ZONES**. **THE DISTRICT** includes the office where mailed and the rural routes therefrom.

**A DISTRICT RATE OF 5 CENTS** for the **first pound** and **1 cent** for each **additional** two pounds or fraction thereof up to **70 pounds** (the district weight limit) is charged between points in this district.

**First** and **Second Zones** cover a radius of 200 miles from the point of mailing, having a weight limit of **70 pounds** and a rate of **5 cents** for the first pound and **1 cent** for each additional pound, or fraction thereof.

The **Third Zone** also has a weight limit of **70 pounds**.

A **weight limit of 50 pounds** applies to the **fourth, fifth, sixth, seventh** and **eighth zones** with rates increasing with the distance. See table.

**SIZE AND WEIGHT**—A Parcel Post package may weigh from 4 ounces to 70 pounds for the first, second and third zones—with a 50-pound weight limit for fourth to eighth zones, and **must not exceed in size 84 inches in length and girth combined**.

**Four Ounces** or less will be charged for at 1 cent per ounce or fraction thereof, **except** on Books, Seeds, Plants, Bulbs, etc., which are 1 cent for 2 ounces up to 8 ounces for any distance.

We have catalogued the weight of most items mailable by Parcel Post and by reference to the table you can always figure your postage.

Parcel Post Rates apply to <b>Seeds, Plants and Books</b> weighing over 8 ounces. Other fourth-class matter over 4 ounces is charged at pound rates	First Pound or Fraction Thereof	Each Additional Pound or Fraction	
Local or District Rate— <b>Portland Office</b> and Rural Routes therefrom.....	\$0.05	½ cent	Weight Limit 70 lbs.
1st Zone } up to and including a radius of 200 miles from the point of mailing.....	.05	\$0.01	Weight Limit 70 lbs.
2nd Zone }	.06	.02	Weight Limit 70 lbs.
3rd Zone }	.07	.04	Weight Limit 50 lbs.
4th Zone.....	.08	.06	Weight Limit 50 lbs.
5th Zone.....	.09	.08	Weight Limit 50 lbs.
6th Zone.....	.11	.10	Weight Limit 50 lbs.
7th Zone.....	.12	.12	Weight Limit 50 lbs.
8th Zone.....			Weight Limit 50 lbs.



## WAR TAX

On Packages requiring 25c Postage add 1c Tax; on 26c to 50c add 2c Tax; over 50c add 1c for every 25c or Fraction thereof.



The 8th Zone rate applies to **ALASKA, HAWAII** and the **PHILIPPINES** with 20 lb. weight limit—To **MEXICO** with 11 lbs.; **CUBA**, 4 lbs. 6 oz.; **PANAMA**, 4 lbs. 6 oz. Postage to Canada on 4th Class packages of over 4 oz. and **NOT EXCEEDING 4 lbs. 6 oz.**, go at 8th Zone rate.

## PLANTING TABLES

### DISTANCES RECOMMENDED FOR PLANTING

Apples (Standard).....	25 to 40 ft. each way	Currants.....	5 ft. x 3 ft.
Pears (Standard).....	20 to 35 ft. each way	Gooseberries.....	5 ft. x 3 ft.
Quince.....	15 ft. each way	Strawberries (hills).....	36 in. x 18 in.
Peaches.....	18 to 24 ft. each way	Strawberries (matted rows).....	48 in. x 12 in.
Plums.....	15 to 20 ft. each way	Grapes.....	8x8 to 10x12 ft.
Cherries.....	25 to 40 ft. each way	Asparagus.....	4 x 1 ft.
Blackberries.....	6 ft. x 4 ft.	Rhubarb.....	4 x 2 ft.
Raspberries.....	6 ft. x 3 ft.		

### NUMBER OF PLANTS PER ACRE AT VARIOUS DISTANCES

In planting trees the greater distance should be given in the richer soils

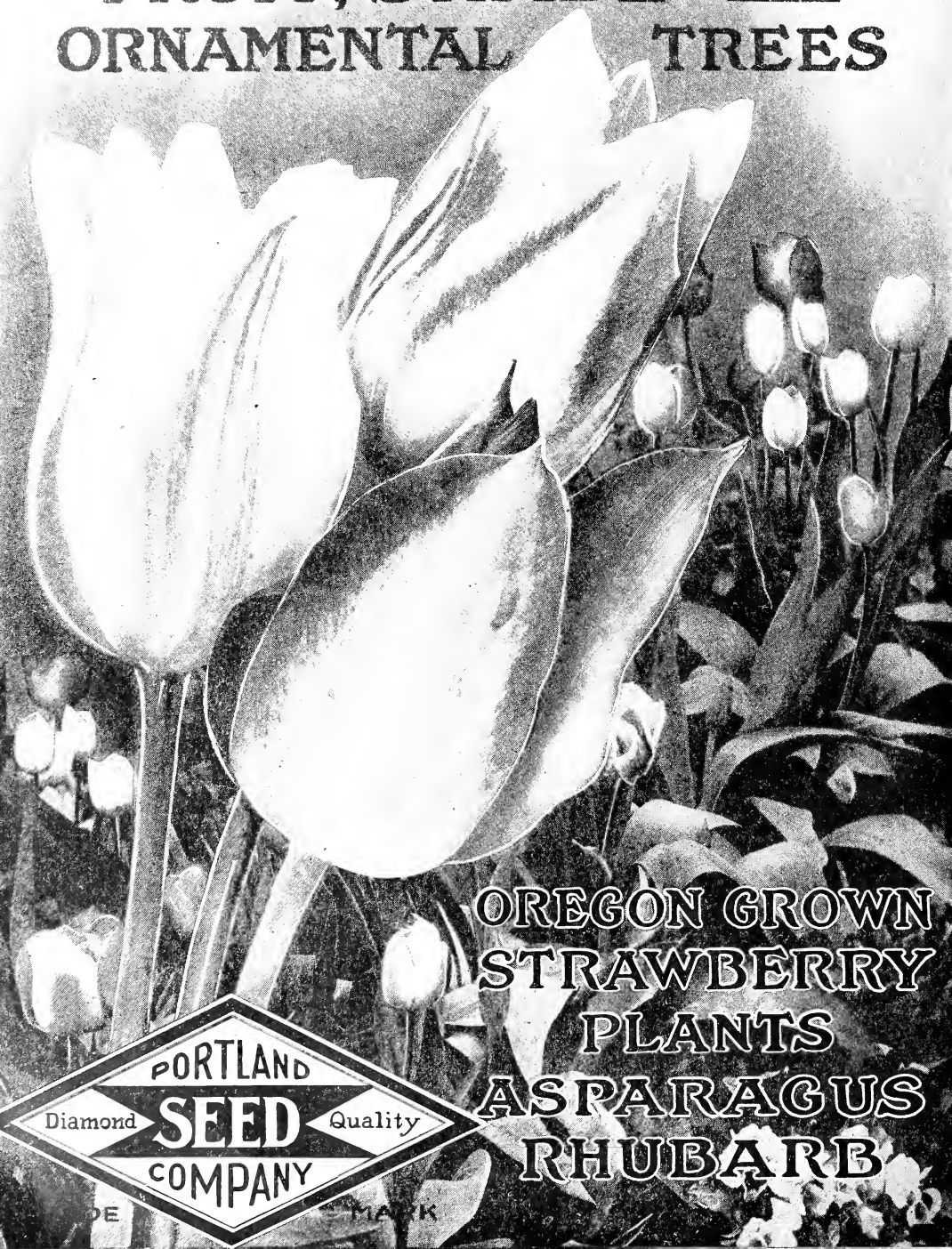
DISTANCE APART	Square Method	Triangular	DISTANCE APART	Square Method	Triangular
1 foot apart each way.....	43,560	50,300	15 feet apart each way.....	193	223
2 feet apart each way.....	10,890	12,575	16 feet apart each way.....	170	196
4 feet apart each way.....	2,722	3,143	20 feet apart each way.....	108	125
6 feet apart each way.....	1,210	1,397	25 feet apart each way.....	70	81
9 feet apart each way.....	537	620	30 feet apart each way.....	48	55
10 feet apart each way.....	435	502	40 feet apart each way.....	27	31

**RULE SQUARE METHOD**—Multiply the distance in feet between the rows by the distance the plants are apart in the row; this gives the number of square feet for each plant or hill; divided into the number of feet in an acre (43,560) gives the number of plants or trees to an acre.

**RULE TRIANGULAR METHOD**—Divide the number required to the acre "square method" by the decimal .366. The result will be number of plants required to the acre by triangular planting.

“Diamond Quality”

Bulbs, Roses, Plants  
FRUIT, SHADE and  
ORNAMENTAL TREES



OREGON GROWN  
STRAWBERRY  
PLANTS  
ASPARAGUS  
RHUBARB

